

```
In [ ]: # Mount Google Drive
from google.colab import drive
drive.mount('/content/drive')
```

Mounted at /content/drive

```
In [ ]: import os
import numpy as np
from skimage import io, color, filters, exposure

def compute_edge_histogram(image):
    grayscale_image = color.rgb2gray(image)
    edge_image = filters.sobel(grayscale_image)
    hist, _ = exposure.histogram(edge_image, nbins=36)
    return hist

def load_images_and_compute_histograms(class_paths):
    images = []
    histograms = []
    labels = []

    for class_path in class_paths:
        class_label = os.path.basename(class_path)

        for filename in os.listdir(class_path):
            if filename.endswith('.png', '.jpg', '.jpeg'):
                image_path = os.path.join(class_path, filename)
                image = io.imread(image_path)
                hist = compute_edge_histogram(image)

                images.append(image)
                histograms.append(hist)
                labels.append(class_label)

    return np.array(images), np.array(histograms), np.array(labels)

class_paths = [
    r"/content/drive/MyDrive/ResizedImages/n02089078-black-and-tan_coonhound",
    r"/content/drive/MyDrive/ResizedImages/n02091831-Saluki",
    r"/content/drive/MyDrive/ResizedImages/n02092002-Scottish_deerhound",
    r"/content/drive/MyDrive/ResizedImages/n02095314-wire-haired_fox_terrier"
]

images, histograms, labels = load_images_and_compute_histograms(class_paths)
```

```
In [ ]: print("Number of images:", len(images))
print("Number of histograms:", len(histograms))
print("Number of labels:", len(labels))

# Display information for the first image
print("First image shape:", images[769].shape)
print("First histogram:", histograms[769])
print("Label for the first image:", labels[769])
print(len(histograms))
```

```
Number of images: 1542
Number of histograms: 1542
Number of labels: 1542
First image shape: (128, 128, 3)
First histogram: [3438 2742 1588 1172 1047 984 841 743 631 542 440 401
348 265
 230 191 160 128 106 82 73 51 38 31 24 15 21 11
   8    7    7    9    5    2    2    1]
Label for the first image: n02092002-Scottish_deerhound
1542
```

```
In [ ]: import os
import numpy as np
from skimage import io, color, filters, exposure

# Function to compute the edge histogram of an image
def compute_edge_histogram(image):
    grayscale_image = color.rgb2gray(image)
    edge_image = filters.sobel(grayscale_image)
    hist, _ = exposure.histogram(edge_image, nbins=36)
    return hist

# Function to load images from given class paths and compute histograms
def load_images_and_compute_histograms(class_paths):
    images = []
    histograms = []
    labels = []

    for class_path in class_paths:
        class_label = os.path.basename(class_path)

        for filename in os.listdir(class_path):
            if filename.endswith('.png', '.jpg', '.jpeg'):
                image_path = os.path.join(class_path, filename)
                image = io.imread(image_path)

                # Compute the edge histogram for the current image
                hist = compute_edge_histogram(image)

                images.append(image)
                histograms.append(hist)
                labels.append(class_label)

    # Convert lists to numpy arrays for ease of use
    return np.array(images), np.array(histograms), np.array(labels)

# List of paths for four different classes
class_paths = [
    r"/content/drive/MyDrive/ResizedImages/n02089078-black-and-tan_coonhound",
    r"/content/drive/MyDrive/ResizedImages/n02091831-Saluki",
    r"/content/drive/MyDrive/ResizedImages/n02092002-Scottish_deerhound",
    r"/content/drive/MyDrive/ResizedImages/n02095314-wire-haired_fox_terrier"
]

# Load images and compute histograms
images, edge_histograms, labels = load_images_and_compute_histograms(class_paths)
```

```
In [ ]: import numpy as np
```

```
# Assuming 'histograms' is your array of histograms
# Each histogram can be represented as a 1D NumPy array

def standardize_histograms(histograms):
    standardized_histograms = []

    for histogram in histograms:
        mean = np.mean(histogram)
        std = np.std(histogram)

        # Standardize the histogram
        standardized_histogram = (histogram - mean) / std
        standardized_histograms.append(standardized_histogram)

    return standardized_histograms

standardized_histograms = standardize_histograms(histograms)
```

```
In [ ]: print(standardized_histograms)
print(len(standardized_histograms))
```

```
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DM PA2 FINAL

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    -0.41729598, -0.46615218, -0.47867941, -0.4999757 , -0.51125021,
    -0.52878833, -0.54006284, -0.53755739, -0.55384279, -0.55509551,
    -0.55634824, -0.55885368, -0.56261185, -0.56261185, -0.56261185,
    -0.56386458, -0.56637002, -0.56637002, -0.57012819, -0.56887547,
    -0.56887547]), array([ 2.66455599,  3.4143589 ,  2.49152455,  1.784402
74,  1.05767069,
    0.67584798,  0.39322997,  0.12330092, -0.0278132 , -0.13393915,
    -0.23545093, -0.32196665, -0.38195088, -0.40963591, -0.42347843,
    -0.4280926 , -0.47077369, -0.47538786, -0.48115557, -0.50191935,
    -0.5007658 , -0.51230123, -0.51806895, -0.51460832, -0.5169154 ,
    -0.5169154 , -0.52152958, -0.52383666, -0.51922249, -0.52383666,
    -0.52383666, -0.5249902 , -0.5249902 , -0.52383666, -0.52383666,
```

```
-0.52383666]), array([ 2.97055378,  3.90346524,  2.27265055,  1.256316
25,  0.65200937,
    0.25015547,  0.06906687, -0.07743176, -0.18221898, -0.23410392,
   -0.30735324, -0.3144747 , -0.33075233, -0.36025552, -0.36330758,
   -0.38568931, -0.40603635, -0.405019 , -0.42027927, -0.42129662,
   -0.41417516, -0.43248749, -0.42638338, -0.43248749, -0.43757425,
   -0.44774776, -0.45181717, -0.45181717, -0.45486923, -0.45690393,
   -0.45893863, -0.45690393, -0.45893863, -0.46300804, -0.46097334,
   -0.46097334])]
```

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```
In [ ]: print("Number of images:", len(images))
print("Number of histograms:", len(histograms))
print("Number of labels:", len(labels))

# Display information for the first image
print("First image shape:", images[769].shape)
print("First histogram:", histograms[769])
print("Label for the first image:", labels[769])
print(len(histograms))

# Print all edge histograms
for i, histogram in enumerate(edge_histograms):
    print(f"Edge Histogram for image {i + 1}:\n{histogram}\n")
```

Streaming output truncated to the last 5000 lines.

Edge Histogram for image 543:

```
[2356 3288 2359 1720 1268 1028 834 647 507 427 352 255 240 209
 162 142 117 100 80 63 61 45 25 29 16 14 12 10
  4   4   2   3   1   1   0   3]
```

Edge Histogram for image 544:

```
[3542 4586 2695 1474 919 631 526 383 252 222 180 190 149 117
 93 77 76 63 46 34 29 21 15 12 6 5 9 8
  5   4   1   1   5   3   3   2]
```

Edge Histogram for image 545:

```
[2598 3297 2383 1596 1151 789 652 495 436 382 267 227 212 204
 160 149 143 100 119 100 102 99 112 102 93 83 87 73
 53 48 37 20 6 8 0 1]
```

Edge Histogram for image 546:

```
[4217 4209 2184 1228 811 653 509 367 298 256 183 165 133 135
 109 94 96 68 72 76 83 69 57 59 48 54 31 36
 18 19 10 10 7 8 4 8]
```

Edge Histogram for image 547:

```
[1977 3394 2688 1940 1407 1080 769 687 482 373 304 279 225 175
 133 111 83 57 45 42 26 21 12 15 16 10 5 7
 2   2   2   1   3   4   5   2]
```

Edge Histogram for image 548:

```
[1765 2883 2408 1690 1264 1016 759 627 540 468 374 303 301 288
 241 209 168 144 142 126 113 107 93 77 51 35 35 37
 38 33 21 12 8 5 1 2]
```

Edge Histogram for image 549:

```
[ 750 1635 1934 1868 1732 1511 1293 1073 811 683 488 423 286 291
 231 182 158 157 110 98 98 96 69 60 58 49 43 42
 30 36 28 13 28 13 4 3]
```

Edge Histogram for image 550:

```
[2302 2756 2355 1852 1375 1091 782 693 511 420 343 255 249 235
 197 157 120 136 104 97 70 56 37 33 24 28 21 23
 12 11 11 9 9 8 1 1]
```

Edge Histogram for image 551:

```
[1517 2659 2530 2181 1704 1420 1021 725 618 456 349 273 186 163
 113 89 85 51 41 35 30 19 22 14 15 7 9 11
 12 6 6 6 5 3 2 1]
```

Edge Histogram for image 552:

```
[2386 3266 2449 1791 1329 953 679 545 457 359 348 285 263 203
 180 147 139 116 85 88 64 53 41 24 32 27 22 15
 8 10 6 7 5 1 0 1]
```

Edge Histogram for image 553:

```
[1792 3310 2830 2032 1439 1085 794 555 441 342 237 223 201 184
 151 131 125 96 94 68 56 41 38 25 12 29 7 18
 5 9 7 4 1 0 1 1]
```

Edge Histogram for image 554:

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[4016	4169	2509	1621	1167	761	490	335	234	201	142	121	103	62
81	56	55	28	44	29	25	15	20	24	10	13	19	14
8	5	2	1	1	2	0	1]						

Edge Histogram for image 555:

[4587	3662	2055	1358	943	744	627	421	380	277	200	195	137	124
118	88	72	57	58	46	37	41	26	33	29	14	11	15
9	6	1	4	1	3	2	3]						

Edge Histogram for image 556:

[4953	3980	1973	1275	950	780	568	388	301	186	167	148	94	77
73	68	51	41	47	40	36	24	30	17	26	14	13	12
17	9	5	9	5	2	3	2]						

Edge Histogram for image 557:

[862	1979	2360	2311	1904	1510	1223	978	712	576	419	304	265	220
141	139	106	80	76	56	39	35	22	21	6	11	5	3
5	5	4	2	3	0	1	1]						

Edge Histogram for image 558:

[3448	2888	2099	1552	1126	964	727	589	453	353	285	266	229	205
179	148	142	115	94	88	79	70	56	47	39	37	34	24
14	11	5	5	5	5	1	2]						

Edge Histogram for image 559:

[3318	4084	2821	1666	1055	653	456	374	243	251	212	160	154	118
103	99	75	77	60	60	45	54	40	35	15	24	23	18
19	15	20	12	7	12	2	4]						

Edge Histogram for image 560:

[1240	2775	3001	2526	1894	1370	968	707	477	355	253	200	166	127
86	53	54	33	23	21	16	10	2	5	4	2	3	2
2	1	1	2	2	0	1	2]						

Edge Histogram for image 561:

[1881	3633	2995	1993	1287	923	619	469	378	312	253	226	217	200
170	154	127	104	82	63	59	46	51	34	27	15	18	16
14	5	5	2	3	2	0	1]						

Edge Histogram for image 562:

[1639	3298	3126	2480	1809	1211	812	542	378	245	183	154	95	85
71	45	40	30	30	22	17	19	12	7	6	5	5	2
7	3	3	0	1	1	0	1]						

Edge Histogram for image 563:

[3741	4448	2393	1188	831	623	496	389	365	315	277	204	170	165
135	113	103	102	57	69	31	23	36	18	13	13	11	12
6	8	13	5	5	2	3	1]						

Edge Histogram for image 564:

[1567	1856	1753	1675	1437	1302	1088	926	783	611	564	490	428	343
277	229	204	144	107	118	90	61	61	54	43	35	37	24
22	20	7	11	7	3	5	2]						

Edge Histogram for image 565:

[5370	2635	1915	1386	1090	804	601	519	330	289	241	195	147	114
110	93	68	54	49	51	44	63	33	39	24	24	22	16

13	10	13	5	8	3	4	2]
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Edge Histogram for image 566:

4924	2913	1934	1377	1082	824	644	524	406	281	273	190	149	150
106	82	75	58	58	48	67	44	36	29	24	19	11	18
12	7	4	6	2	0	5	2]						

Edge Histogram for image 567:

2427	2639	2116	1706	1377	1114	967	792	597	521	391	325	231	171
141	110	125	91	84	104	72	59	45	54	25	23	18	21
11	11	4	3	4	4	0	1]						

Edge Histogram for image 568:

2557	3190	2890	2209	1524	992	696	505	387	288	202	160	113	96
98	77	44	48	39	46	35	41	33	30	25	9	11	15
4	8	6	3	0	0	2	1]						

Edge Histogram for image 569:

2583	2700	2241	1674	1297	1037	815	686	561	493	368	330	264	250
188	187	123	118	91	87	66	47	39	33	29	19	23	8
7	4	8	2	1	2	2	1]						

Edge Histogram for image 570:

3484	3195	2271	1573	1100	806	654	540	442	379	304	238	206	180
167	118	111	87	74	65	51	63	46	48	32	29	22	28
18	19	10	7	4	6	2	5]						

Edge Histogram for image 571:

2605	2888	2256	1841	1410	1091	845	621	500	394	346	257	219	198
156	118	109	86	66	54	51	47	37	27	25	23	27	20
18	16	9	11	8	3	1	1]						

Edge Histogram for image 572:

2160	3696	3081	2111	1405	903	575	440	300	262	195	173	142	123
101	108	67	78	77	58	51	49	35	36	32	21	27	26
21	8	9	5	3	3	2	1]						

Edge Histogram for image 573:

5004	4619	2595	1340	734	405	281	208	182	148	146	113	88	92
56	52	51	45	27	31	31	21	20	17	17	9	11	10
5	6	4	7	3	1	3	2]						

Edge Histogram for image 574:

5060	4071	2285	1208	823	562	475	351	290	230	180	164	132	106
81	59	62	48	36	28	24	20	16	15	10	8	7	4
9	4	4	3	8	0	0	1]						

Edge Histogram for image 575:

4164	3813	2055	1127	767	636	504	452	357	289	280	269	214	209
176	167	147	113	103	71	77	51	47	44	47	27	23	33
33	27	19	19	9	7	6	2]						

Edge Histogram for image 576:

1977	3198	2587	1913	1628	1197	946	734	564	388	283	204	148	114
116	86	52	55	36	28	20	23	21	22	11	15	7	4
3	1	2	0	0	0	0	0	1]					

Edge Histogram for image 577:

4822	3146	1686	1129	908	748	652	548	464	420	364	283	231	194
145	132	114	80	67	42	43	44	26	24	23	6	8	11
7	5	5	4	1	0	0	2						

Edge Histogram for image 578:

4550	3328	2196	1509	964	746	514	384	345	308	237	194	155	120
100	110	97	110	59	62	49	38	32	32	27	27	22	19
17	12	9	3	5	2	1	1						

Edge Histogram for image 579:

2005	3389	2843	1925	1331	944	785	610	463	380	313	232	184	182
150	99	102	108	63	64	48	36	25	19	17	20	13	12
11	5	1	3	1	0	0	1						

Edge Histogram for image 580:

1449	2883	2680	2079	1466	1142	958	765	556	459	408	299	246	196
174	124	82	93	64	55	50	34	27	18	15	17	14	6
3	1	10	1	2	4	1	3						

Edge Histogram for image 581:

4865	3158	1829	1388	1052	837	629	493	369	344	271	223	149	151
106	83	80	62	50	37	33	46	23	30	19	8	9	11
5	10	3	4	3	3	0	1						

Edge Histogram for image 582:

2578	3040	2194	1548	1167	929	746	657	536	427	395	333	250	221
214	166	118	128	134	117	96	70	72	55	43	51	24	23
15	10	11	7	3	2	1	3						

Edge Histogram for image 583:

1266	2448	2510	2255	1802	1348	942	762	557	432	348	263	241	213
160	128	99	90	88	64	60	54	48	38	32	33	28	21
20	12	6	7	4	1	2	2						

Edge Histogram for image 584:

3099	3124	2393	1759	1233	900	730	555	474	385	292	210	195	172
124	119	99	88	73	62	59	52	41	33	20	18	12	15
9	10	11	7	2	2	3	4						

Edge Histogram for image 585:

4570	3010	2221	1520	1177	833	590	471	364	274	239	170	126	111
100	104	73	67	40	49	45	31	26	28	26	24	17	18
16	13	7	10	4	3	5	2						

Edge Histogram for image 586:

3848	2903	2264	1571	1158	883	656	507	362	303	261	215	196	142
142	117	123	109	83	73	59	60	60	49	36	30	25	43
26	18	16	10	21	6	6	3						

Edge Histogram for image 587:

2056	2806	2597	2064	1539	1233	916	633	527	366	318	243	186	160
142	122	102	79	58	50	46	27	25	20	18	15	13	8
1	6	4	1	2	0	0	1						

Edge Histogram for image 588:

2019	3378	2916	1982	1479	1063	800	641	458	378	307	214	196	162
------	------	------	------	------	------	-----	-----	-----	-----	-----	-----	-----	-----

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106	90	55	40	26	20	11	8	6	3	5	4	3	1
5	1	1	1	1	1	0	3]						

Edge Histogram for image 589:

3475	3681	2091	1310	924	694	580	435	341	302	277	224	206	182
175	173	133	131	98	123	100	99	79	71	54	73	66	59
53	44	46	39	22	12	10	2]						

Edge Histogram for image 590:

3427	5263	3030	1435	850	504	305	246	166	178	155	123	109	99
87	62	49	50	45	29	27	22	14	19	14	22	18	10
7	9	3	1	1	1	1	3]						

Edge Histogram for image 591:

5265	4013	1926	1273	865	644	485	355	269	208	174	154	122	92
80	63	52	52	38	32	29	35	25	20	15	18	18	10
14	12	4	2	6	5	8	1]						

Edge Histogram for image 592:

3996	2932	1853	1316	963	710	602	533	494	387	356	349	250	231
199	174	146	133	116	104	112	83	60	54	47	41	29	27
21	19	12	18	9	3	3	2]						

Edge Histogram for image 593:

2098	3413	2656	1928	1394	1062	793	665	467	411	327	253	210	148
131	84	87	47	42	36	31	20	14	13	15	10	10	3
4	1	2	4	0	2	2	1]						

Edge Histogram for image 594:

3733	3942	2265	1540	1138	821	580	447	316	257	198	176	125	121
108	77	74	60	64	74	52	36	29	38	24	15	17	16
10	8	5	6	5	5	0	2]						

Edge Histogram for image 595:

4830	2628	1980	1638	1089	872	590	453	373	298	235	221	146	130
115	106	72	63	59	48	49	46	58	41	35	36	34	21
31	17	14	14	10	6	11	15]						

Edge Histogram for image 596:

4333	2898	1863	1244	910	771	695	536	490	399	335	268	208	219
136	137	116	103	116	83	71	66	68	45	58	40	43	31
28	18	16	10	11	8	6	5]						

Edge Histogram for image 597:

5640	2669	1661	1247	1040	772	618	478	449	393	296	215	158	132
123	89	70	57	56	34	37	25	26	25	22	15	10	11
5	4	2	3	0	0	1	1]						

Edge Histogram for image 598:

1415	2645	2311	1896	1472	1184	965	687	538	423	381	308	274	219
178	174	164	143	125	120	113	90	80	87	83	54	48	51
29	27	26	22	24	15	6	7]						

Edge Histogram for image 599:

3276	2884	1909	1503	1181	949	789	627	508	447	402	311	256	224
171	143	142	119	84	74	61	47	45	46	38	26	29	22
15	15	8	5	13	3	6	6	6]					

Edge Histogram for image 600:

2214	3000	2404	1807	1298	1082	836	645	481	400	372	303	242	205
155	181	112	91	81	75	73	64	54	38	40	30	17	18
21	11	12	7	4	5	0	6						

Edge Histogram for image 601:

1315	2819	2788	2190	1681	1172	952	708	529	397	302	273	202	159
142	118	97	76	70	63	69	48	43	35	16	24	27	12
17	13	14	4	5	2	1	1						

Edge Histogram for image 602:

2920	3655	2335	1610	1225	1001	726	549	450	378	288	264	181	130
126	87	91	77	43	61	44	26	24	25	14	11	11	5
5	8	4	3	3	1	2	1	1					

Edge Histogram for image 603:

5575	4115	2068	1239	793	560	425	294	213	177	151	116	94	86
76	62	48	50	46	39	37	28	14	14	14	14	12	9
6	2	2	1	0	2	1	1	1					

Edge Histogram for image 604:

1199	2160	2229	2061	1715	1440	1114	870	689	546	449	330	257	241
180	135	135	93	97	77	67	61	41	37	33	28	21	11
17	14	9	12	5	4	3	4						

Edge Histogram for image 605:

2016	4244	3746	2450	1440	840	507	337	223	166	102	85	59	46
18	30	13	11	11	7	10	5	7	4	2	1	0	0
2	0	1	0	0	0	0	0	1					

Edge Histogram for image 606:

813	2054	2496	2222	1822	1453	1071	859	671	559	431	328	310	244
199	173	136	130	96	72	66	48	41	24	18	10	7	9
12	5	1	1	0	1	0	0	2					

Edge Histogram for image 607:

2242	3115	2448	1732	1327	1098	825	682	519	426	362	263	212	219
168	126	113	100	101	86	63	47	34	13	23	11	10	5
3	5	3	0	1	0	0	0	2					

Edge Histogram for image 608:

993	2529	2957	2588	1991	1420	940	723	502	379	311	257	183	139
113	88	75	50	39	28	18	14	15	3	3	2	4	4
4	3	0	2	1	0	2	4						

Edge Histogram for image 609:

3438	3183	2027	1491	1104	804	638	489	376	378	296	264	256	198
179	161	144	146	119	101	95	73	61	64	42	36	30	36
33	32	33	17	16	11	8	5						

Edge Histogram for image 610:

3580	3270	2068	1396	1006	814	691	564	488	408	283	255	218	211
164	118	106	105	96	87	77	73	75	59	47	38	22	15
13	9	8	7	6	3	2	2	2					

Edge Histogram for image 611:

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[3069	4074	2632	1450	866	543	428	329	279	256	236	217	210	191
180	192	171	181	151	138	125	83	82	59	45	46	39	38
21	22	15	8	2	4	1	1						

Edge Histogram for image 612:

[2971	2927	2583	2095	1474	1031	801	529	462	337	251	187	162	116
87	80	56	57	35	34	31	21	15	14	10	8	3	3
0	1	1	0	0	1	0	1						

Edge Histogram for image 613:

[2994	3834	2952	2031	1352	925	601	334	266	210	130	131	149	137
98	72	56	36	18	16	11	14	3	1	2	2	2	2
1	0	0	1	2	0	0	1						

Edge Histogram for image 614:

[1430	2931	3019	2363	1806	1212	867	632	452	309	237	205	176	126
99	87	57	55	56	40	38	33	32	22	19	14	16	13
6	7	7	9	4	1	1	3						

Edge Histogram for image 615:

[2954	3490	2531	1678	1132	847	672	551	410	369	307	232	210	151
127	127	91	83	75	62	48	52	34	30	25	19	17	13
11	12	8	6	4	2	0	4						

Edge Histogram for image 616:

[4387	5146	2701	1296	723	480	322	255	190	148	116	111	78	72
56	52	39	41	24	25	18	18	9	9	10	6	8	6
11	10	8	1	2	2	1	3						

Edge Histogram for image 617:

[8954	2859	1332	845	512	355	278	254	254	197	158	121	70	45
25	24	17	21	11	11	6	10	12	2	3	3	1	0
3	0	0	0	0	0	0	1						

Edge Histogram for image 618:

[4104	3542	2043	1281	989	817	591	508	404	339	261	254	208	144
133	112	98	83	60	86	54	48	46	42	28	22	16	7
10	17	8	12	6	5	3	3						

Edge Histogram for image 619:

[5105	3675	2282	1436	851	689	502	397	280	201	140	117	98	93
60	52	53	48	32	44	32	24	24	29	21	23	22	24
14	3	7	1	3	1	0	1						

Edge Histogram for image 620:

[5056	3412	2050	1385	1042	745	570	388	322	218	185	162	143	127
89	95	86	52	55	40	43	29	32	13	13	10	5	3
3	6	2	1	1	0	0	1						

Edge Histogram for image 621:

[4677	2901	1715	1206	991	829	639	550	425	376	330	283	235	207
175	137	108	112	75	72	62	52	45	49	25	25	16	27
8	7	7	6	4	1	3	4						

Edge Histogram for image 622:

[2993	4073	2640	1652	1056	706	587	433	351	289	248	210	173	138
133	118	78	85	67	72	57	49	38	31	22	23	20	11

13	7	2	4	1	0	1	3]
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Edge Histogram for image 623:

[5027	3527	1953	1171	846	665	559	446	392	312	273	209	194	152
137	112	69	70	58	52	25	19	21	17	17	17	7	5
4	7	3	4	7	1	2	4]						

Edge Histogram for image 624:

[8727	2644	1100	723	549	452	295	281	230	182	124	122	115	72
75	77	68	64	56	46	50	33	45	37	34	21	29	27
17	19	21	18	18	6	4	3]						

Edge Histogram for image 625:

[1760	2741	2840	2483	1927	1354	958	649	470	318	219	164	111	75
58	45	43	31	31	16	18	16	13	11	5	6	3	4
3	3	3	1	2	0	1	2]						

Edge Histogram for image 626:

[1480	3092	3097	2231	1618	1067	755	605	506	361	321	224	197	146
114	99	112	65	65	38	40	30	22	24	6	11	18	9
6	10	7	1	4	1	1	1]						

Edge Histogram for image 627:

[2509	4613	3524	2019	1038	646	414	310	262	167	164	122	101	78
62	68	52	40	41	32	24	14	7	6	9	13	4	6
2	9	11	6	4	5	0	2]						

Edge Histogram for image 628:

[2239	3395	2628	1793	1286	973	716	560	435	366	313	268	220	186
164	149	115	80	81	85	84	59	45	32	28	24	17	13
9	5	8	4	1	1	1	1]						

Edge Histogram for image 629:

[3274	3673	2526	1792	1140	853	677	499	373	293	204	186	139	116
98	81	85	71	55	38	31	45	34	22	17	17	8	11
8	6	4	2	2	1	2	1]						

Edge Histogram for image 630:

[1209	2325	2359	2319	1975	1510	1171	870	642	459	326	240	194	170
121	90	88	81	69	37	35	20	24	16	8	7	7	3
4	1	1	1	1	0	0	1]						

Edge Histogram for image 631:

[893	2128	2538	2396	1982	1584	1233	950	659	524	375	284	182	145
130	90	64	50	42	35	27	19	14	8	9	6	3	6
2	1	1	1	1	0	0	2]						

Edge Histogram for image 632:

[1668	2835	2597	2106	1748	1299	1002	775	581	387	342	256	208	103
109	67	46	54	39	38	19	24	21	16	11	5	8	8
2	3	1	2	1	1	0	2]						

Edge Histogram for image 633:

[4303	4689	2534	1429	891	604	438	323	261	184	143	114	73	69
45	55	47	30	21	21	13	13	8	18	10	9	6	9
2	9	3	2	3	2	1	2]						

Edge Histogram for image 634:

3439	3222	2339	1707	1218	923	722	478	424	317	264	202	167	162
113	115	90	81	76	59	62	47	24	24	19	24	8	22
11	7	6	9	1	0	0	2						

Edge Histogram for image 635:

3293	3028	2134	1530	1133	863	625	619	488	382	312	300	251	225
167	169	129	143	107	98	90	59	53	41	37	27	19	15
18	6	5	8	2	5	1	2						

Edge Histogram for image 636:

5526	4244	1696	1034	785	584	475	383	300	247	192	167	121	92
90	73	61	45	40	41	27	35	24	11	15	12	16	7
11	6	6	3	5	4	3	3						

Edge Histogram for image 637:

2135	3489	3001	2237	1543	1135	751	514	415	338	204	156	99	72
65	49	32	25	31	23	15	11	6	5	8	5	2	4
5	3	2	1	0	0	2	1						

Edge Histogram for image 638:

2881	2677	1856	1362	1048	925	696	628	538	503	419	406	318	297
273	246	197	193	144	127	124	106	77	62	61	50	45	26
30	18	16	9	13	8	4	1						

Edge Histogram for image 639:

1463	2695	2600	1995	1602	1215	1018	854	613	486	316	256	216	190
131	116	95	95	76	42	53	29	39	32	39	26	23	13
14	16	8	3	2	4	7	2						

Edge Histogram for image 640:

2996	2952	2255	1695	1395	1014	786	600	480	399	301	268	203	187
135	110	108	81	65	57	62	31	40	27	31	24	16	17
12	16	5	3	6	1	3	3						

Edge Histogram for image 641:

3009	3164	2119	1629	1220	968	714	551	439	365	340	282	265	208
179	147	123	120	89	87	65	71	63	43	35	25	22	7
7	8	7	9	3	0	0	1						

Edge Histogram for image 642:

1427	2573	2544	2087	1643	1250	942	758	528	413	281	245	224	174
147	149	142	141	127	90	80	63	59	59	56	42	38	15
25	15	17	7	9	9	4	1						

Edge Histogram for image 643:

3037	3248	2305	1879	1425	1052	727	577	410	318	244	202	176	127
131	95	91	69	63	46	39	28	27	17	17	10	6	7
4	3	1	2	0	0	0	1						

Edge Histogram for image 644:

2997	3910	2839	1797	1210	827	526	386	257	234	210	178	134	113
81	104	82	48	60	69	47	41	34	37	43	31	23	20
18	7	6	4	3	5	2	1						

Edge Histogram for image 645:

3489	5293	2827	1208	684	507	423	343	253	251	179	164	119	112
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95	79	82	50	59	36	35	37	17	13	10	4	5	3
1	0	2	1	0	1	0	2]						

Edge Histogram for image 646:

[4568	4289	2262	1380	863	660	463	409	329	202	175	143	99	117
82	69	36	46	41	33	28	24	20	8	9	8	6	7
5	1	0	0	0	0	0	2]						

Edge Histogram for image 647:

[5875	2874	1960	1349	933	708	465	341	286	232	185	154	138	119
91	89	71	46	66	43	44	30	38	56	34	49	30	25
16	12	11	3	5	3	1	2]						

Edge Histogram for image 648:

[2311	3145	2518	1853	1388	1013	756	626	482	416	306	291	259	210
168	141	106	89	66	61	39	34	22	25	13	7	6	10
10	0	2	3	2	2	2	2]						

Edge Histogram for image 649:

[5279	3409	2039	1325	934	647	457	335	269	223	194	140	136	101
121	106	96	84	105	60	51	34	32	30	27	25	17	27
18	25	20	8	4	1	2	3]						

Edge Histogram for image 650:

[3486	3096	2312	1716	1321	960	723	562	436	369	287	187	179	148
122	82	64	62	44	31	27	25	27	16	13	10	7	13
11	6	4	10	6	10	5	7]						

Edge Histogram for image 651:

[3443	3735	2611	1586	1045	689	547	425	328	284	265	191	151	181
139	119	90	69	74	75	50	56	58	34	24	23	15	21
12	9	3	7	7	5	11	2]						

Edge Histogram for image 652:

[1315	2360	2269	1791	1534	1243	1041	866	679	600	464	401	360	309
235	221	158	120	100	88	57	41	33	27	13	19	10	9
8	2	4	2	1	0	1	3]						

Edge Histogram for image 653:

[2497	3109	2273	1775	1327	1061	820	688	504	448	364	258	211	165
146	121	97	90	58	64	56	51	41	31	26	18	14	15
12	8	7	7	8	7	2	5]						

Edge Histogram for image 654:

[4639	3323	2248	1525	911	616	451	317	250	225	148	175	150	150
131	143	120	122	119	79	76	61	49	69	53	42	39	31
26	27	17	11	13	9	10	9]						

Edge Histogram for image 655:

[3793	4542	2387	1448	1096	738	488	394	236	175	152	125	76	68
82	49	70	57	45	42	38	39	37	37	22	25	24	21
18	17	10	9	10	8	5	1]						

Edge Histogram for image 656:

[3198	3935	2315	1592	1122	825	557	478	338	305	246	197	175	164
136	118	111	90	85	69	51	47	54	35	23	27	26	19
9	18	7	5	3	1	1	2]						

Edge Histogram for image 657:

2281	3421	2711	1937	1378	1021	745	547	402	295	258	219	156	163
149	122	91	82	72	66	71	42	29	30	31	21	17	8
7	2	4	1	2	2	0	1						

Edge Histogram for image 658:

4187	3750	2354	1508	1004	634	458	330	250	218	179	134	143	128
104	101	93	93	85	70	68	73	60	41	40	41	34	37
37	37	36	21	13	12	6	5						

Edge Histogram for image 659:

7307	3401	1605	1018	675	509	386	282	178	135	131	120	104	91
67	47	55	30	25	47	28	28	15	25	29	24	6	2
3	2	3	2	0	1	2	1						

Edge Histogram for image 660:

6545	4466	1868	1019	641	453	341	229	183	148	90	66	59	46
37	37	35	17	12	29	25	8	7	2	4	3	3	1
3	3	2	0	1	0	0	1						

Edge Histogram for image 661:

4072	3753	2124	1541	1192	856	669	485	364	259	226	173	134	93
88	76	45	51	40	27	25	20	15	11	11	11	3	3
3	1	2	4	0	4	0	3						

Edge Histogram for image 662:

4620	4912	2507	1316	731	433	279	212	181	157	148	117	101	92
98	80	71	60	58	48	37	27	23	21	10	6	16	7
2	4	4	0	2	1	1	2						

Edge Histogram for image 663:

2013	3685	3138	2327	1668	1097	713	469	297	255	152	108	85	58
39	51	21	29	32	27	19	20	13	11	5	8	5	4
2	4	2	5	2	10	1	9						

Edge Histogram for image 664:

4074	2689	1799	1347	1067	831	674	576	487	434	391	319	255	269
188	188	137	110	103	94	57	58	40	45	32	33	20	17
15	13	10	6	4	1	0	1						

Edge Histogram for image 665:

2356	1743	1686	1596	1484	1357	1136	945	702	650	513	405	347	238
233	173	132	114	96	77	75	54	47	33	35	23	21	24
20	16	13	12	9	11	5	3						

Edge Histogram for image 666:

4917	4406	1996	1174	835	584	452	361	291	225	183	136	125	92
79	81	55	48	42	33	41	26	33	29	34	21	26	15
12	11	8	4	1	2	3	3						

Edge Histogram for image 667:

3912	3935	2272	1468	1006	667	479	367	279	204	185	149	123	133
120	101	94	98	105	95	86	86	79	94	63	52	53	36
18	10	4	6	3	1	0	1						

Edge Histogram for image 668:

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[1512	3191	3104	2456	1727	1179	769	567	386	300	211	171	123	109
83	71	79	48	37	36	23	28	26	19	23	14	16	12
15	8	7	11	7	9	4	3						

Edge Histogram for image 669:

[5258	3395	2000	1339	943	643	478	392	338	265	170	199	153	155
120	96	78	76	55	52	35	23	21	23	7	13	12	9
17	2	4	2	3	5	1	2						

Edge Histogram for image 670:

[1147	2842	3165	2644	1742	1219	817	582	398	304	242	187	191	144
117	96	72	65	55	54	49	38	37	29	30	23	19	19
16	17	5	7	7	1	1	3						

Edge Histogram for image 671:

[4085	3414	2279	1434	1077	809	644	456	386	261	244	187	197	164
118	95	104	63	71	61	40	43	32	27	18	16	14	11
16	5	1	1	4	5	1	1						

Edge Histogram for image 672:

[3084	4269	2914	1785	1065	742	471	328	269	203	209	180	171	130
85	78	91	67	54	40	38	24	14	16	12	9	7	4
2	4	3	0	2	3	3	8						

Edge Histogram for image 673:

[2390	2858	2292	1550	1195	937	699	621	566	486	466	346	343	270
240	196	180	145	121	98	77	58	45	42	37	30	17	18
17	13	17	8	1	4	0	1						

Edge Histogram for image 674:

[5643	2853	1889	1308	985	759	553	487	318	283	226	175	130	141
97	94	71	56	53	49	37	29	30	23	29	22	11	4
8	5	5	8	0	2	0	1						

Edge Histogram for image 675:

[3390	3461	2505	1757	1337	988	733	479	397	296	192	181	141	113
81	53	49	42	26	28	26	22	17	8	10	21	10	7
4	3	0	1	3	1	0	2						

Edge Histogram for image 676:

[3955	3144	2097	1457	1052	803	566	446	335	291	228	241	184	177
138	132	132	110	114	101	104	72	86	64	72	66	52	41
46	25	18	13	11	9	1	1						

Edge Histogram for image 677:

[3560	3634	2767	1686	1103	714	508	379	325	262	226	176	145	119
113	100	76	84	56	60	43	48	27	34	21	21	21	23
18	9	9	3	4	5	2	3						

Edge Histogram for image 678:

[1472	3055	2885	2230	1668	1247	843	659	528	365	295	231	187	163
121	85	75	60	42	38	29	20	18	13	9	10	10	5
6	6	3	3	0	1	0	0	2					

Edge Histogram for image 679:

[953	2134	2568	2382	1918	1455	1092	823	620	455	374	272	245	198
200	159	112	99	67	54	40	42	26	24	15	13	11	6

7	4	5	6	2	1	1	1]
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Edge Histogram for image 680:

[3302	4114	2587	1661	1080	771	557	418	290	257	200	149	153	125
101	106	84	76	58	54	40	39	33	24	16	21	14	6
7	8	6	7	6	6	3	5]						

Edge Histogram for image 681:

[5138	3896	1986	1323	972	687	517	420	296	205	144	141	98	79
67	56	46	41	37	28	33	31	26	23	23	13	6	19
7	5	10	6	3	0	1	1]						

Edge Histogram for image 682:

[1981	3183	2931	2141	1424	1143	765	575	425	313	230	188	165	110
116	91	81	68	63	70	59	51	39	37	29	19	21	19
18	12	9	2	2	1	1	2]						

Edge Histogram for image 683:

[1387	2511	2530	2242	1646	1286	911	673	571	447	395	325	267	201
207	166	139	100	79	65	55	48	36	34	14	17	14	5
0	1	1	5	1	2	0	3]						

Edge Histogram for image 684:

[1527	2995	2789	2260	1657	1174	863	621	456	339	323	228	203	195
135	111	103	79	63	58	44	37	20	17	20	12	14	9
4	2	7	3	8	2	2	4]						

Edge Histogram for image 685:

[3786	3515	2265	1621	1103	830	620	481	400	304	240	217	181	106
150	111	86	69	52	42	38	34	26	19	22	14	8	11
11	7	8	0	3	1	1	2]						

Edge Histogram for image 686:

[5947	3731	1813	1166	715	532	383	323	296	228	187	174	144	134
117	90	79	58	55	48	40	37	22	25	13	7	6	3
4	1	3	2	0	0	0	0	1]					

Edge Histogram for image 687:

[7174	3029	1934	1177	670	452	346	236	210	184	118	106	83	86
91	66	58	55	44	43	34	22	30	26	14	20	11	15
13	9	7	5	7	1	5	3]						

Edge Histogram for image 688:

[2363	3784	2853	1980	1255	958	704	517	403	332	281	204	171	121
99	75	61	47	46	31	22	23	15	12	8	4	1	3
2	2	1	2	2	0	1	1]						

Edge Histogram for image 689:

[3519	3444	1995	1403	1041	861	717	573	462	390	322	285	250	190
161	136	112	90	90	76	53	42	44	25	16	19	17	4
12	10	9	6	4	2	2	2]						

Edge Histogram for image 690:

[2851	3680	2835	1951	1301	886	604	391	277	250	178	140	142	113
99	96	78	79	62	54	46	45	31	38	36	17	21	23
24	7	6	8	5	4	1	5]						

Edge Histogram for image 691:

8438	2183	1014	688	554	471	390	345	292	260	226	190	163	145
153	141	108	104	64	85	76	61	44	40	33	19	20	22
21	9	8	4	6	3	2	2						

Edge Histogram for image 692:

4318	4045	2306	1410	914	660	484	453	330	316	219	166	118	116
76	78	50	50	35	34	24	25	20	21	35	15	17	11
17	5	3	4	3	3	1	2						

Edge Histogram for image 693:

5325	5348	2255	1136	726	454	318	219	139	103	71	64	40	30
35	17	25	15	11	8	5	6	2	6	4	3	3	5
2	2	3	0	0	1	2	1						

Edge Histogram for image 694:

3195	2903	2028	1614	1325	1130	849	718	556	427	331	296	202	160
142	101	87	74	68	34	33	20	22	17	14	16	10	5
2	1	1	1	0	0	0	2						

Edge Histogram for image 695:

5580	3195	1601	1219	830	663	542	379	317	294	224	231	174	131
116	125	92	64	76	63	63	68	65	51	60	64	50	17
8	3	7	6	2	0	2	2						

Edge Histogram for image 696:

4588	3365	2223	1361	964	679	533	384	344	313	230	222	197	158
138	102	104	75	70	55	58	49	31	38	21	24	14	15
7	2	6	4	3	2	3	2						

Edge Histogram for image 697:

2987	3586	2495	1708	1198	864	634	517	443	348	297	216	174	175
115	119	89	87	54	59	46	41	29	29	16	14	8	6
5	8	1	6	4	1	1	4						

Edge Histogram for image 698:

2117	3841	3267	2237	1505	964	619	432	275	231	196	155	105	77
65	50	47	49	24	37	20	15	16	10	9	5	3	3
4	3	1	0	0	0	0	2						

Edge Histogram for image 699:

1133	2209	2263	1970	1591	1212	933	733	594	516	453	363	271	264
241	208	222	162	149	127	97	99	81	84	59	59	58	41
50	40	36	25	19	14	3	5						

Edge Histogram for image 700:

1352	2641	2709	2154	1788	1299	987	698	572	444	334	264	229	167
134	99	91	69	78	59	49	42	32	26	22	12	6	7
10	3	2	0	2	2	0	1						

Edge Histogram for image 701:

2474	2340	1942	1652	1455	1170	943	800	587	479	431	365	298	228
196	167	164	148	102	84	76	45	32	25	31	25	22	20
16	13	10	12	14	10	4	4	4					

Edge Histogram for image 702:

1194	2240	2246	2125	1866	1488	1193	897	698	590	412	334	232	200
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134	105	85	60	58	44	36	26	18	18	14	11	15	12
6	8	7	6	3	0	1	2]						

Edge Histogram for image 703:

1896	3570	3116	2069	1292	844	617	435	346	292	237	206	177	161
157	142	124	108	115	93	66	67	64	47	40	19	18	22
17	7	3	6	4	3	2	2]						

Edge Histogram for image 704:

2687	4221	2946	1691	999	662	438	365	303	243	219	185	161	166
124	129	94	90	68	79	58	53	81	50	51	36	34	20
22	21	26	13	12	14	10	13]						

Edge Histogram for image 705:

1493	3200	3171	2525	1666	1115	757	571	403	299	267	221	139	118
84	70	56	39	23	25	26	21	18	19	9	6	11	5
10	5	4	4	1	0	2	1]						

Edge Histogram for image 706:

1422	2752	2620	2009	1675	1269	955	765	591	430	326	252	212	156
152	129	104	93	75	65	64	45	41	23	29	24	21	23
18	11	10	12	2	5	3	1]						

Edge Histogram for image 707:

1898	3486	3144	2329	1554	1019	726	457	314	261	220	180	127	109
75	68	61	58	49	34	25	31	24	13	22	16	18	11
9	13	7	10	7	5	2	2]						

Edge Histogram for image 708:

2520	2677	2357	1978	1527	1091	862	701	517	399	324	290	230	190
137	106	89	77	50	57	36	24	30	26	22	10	15	6
9	11	9	1	3	2	0	1]						

Edge Histogram for image 709:

4270	3121	2025	1439	1094	805	699	483	428	363	283	184	167	157
131	122	98	77	78	50	34	41	28	21	29	32	20	25
23	15	12	12	4	8	5	1]						

Edge Histogram for image 710:

4051	2931	1880	1351	1140	920	740	575	477	387	328	284	226	195
165	135	125	94	81	73	51	40	30	29	20	15	7	9
4	7	6	2	3	2	0	1]						

Edge Histogram for image 711:

4227	3287	2412	1685	1160	785	556	472	341	276	200	181	137	117
108	73	68	57	53	43	28	26	15	14	9	9	10	9
4	6	4	1	2	4	3	2]						

Edge Histogram for image 712:

3300	4358	2787	1781	1066	734	507	386	242	219	160	134	117	97
66	68	66	58	42	35	32	24	15	12	14	8	9	9
8	6	10	6	3	2	0	3]						

Edge Histogram for image 713:

8464	2362	1245	895	694	449	391	298	245	227	172	145	127	92
75	74	55	57	49	30	31	29	16	15	23	15	17	20
12	12	12	13	11	8	1	3]						

Edge Histogram for image 714:

```
[3172 2840 2047 1502 1144 943 778 595 489 372 382 353 277 254
 198 146 160 128 101 89 84 77 51 45 34 32 26 12
 15 11 8 6 6 4 2 1]
```

Edge Histogram for image 715:

```
[1405 2602 2444 2071 1626 1148 949 729 528 504 418 340 269 218
 201 148 136 101 84 82 66 62 59 35 36 27 26 13
 17 13 5 10 5 3 2 2]
```

Edge Histogram for image 716:

```
[2760 3349 2418 1725 1140 830 645 544 416 357 310 251 221 216
 189 166 144 118 105 103 69 72 42 38 33 28 14 15
 18 8 11 11 9 4 4 1]
```

Edge Histogram for image 717:

```
[1090 1898 1885 1697 1453 1292 1080 897 790 681 563 475 414 355
 314 260 228 202 184 113 115 84 61 49 38 50 30 25
 21 11 13 6 2 4 2 2]
```

Edge Histogram for image 718:

```
[2195 3132 2611 1925 1374 1006 773 580 472 364 343 274 246 213
 167 139 101 91 71 64 50 42 37 30 14 21 15 3
 8 4 4 6 5 2 1 1]
```

Edge Histogram for image 719:

```
[1552 3120 3122 2424 1709 1205 784 592 380 301 183 197 143 117
 97 70 48 46 38 48 24 25 35 22 21 11 14 12
 15 7 8 3 6 3 1 1]
```

Edge Histogram for image 720:

```
[1222 2475 2762 2421 1971 1446 929 611 402 307 193 185 169 135
 113 98 91 85 98 64 50 68 70 49 55 50 59 36
 45 20 29 32 22 12 4 6]
```

Edge Histogram for image 721:

```
[1873 3446 2974 2191 1555 1025 771 521 419 327 251 200 169 125
 95 79 58 54 33 28 28 30 24 21 21 12 15 10
 4 7 7 2 4 0 1 4]
```

Edge Histogram for image 722:

```
[7147 3485 1526 780 512 419 332 305 263 212 155 119 132 104
 101 87 71 62 71 64 56 57 43 54 33 37 19 13
 21 15 14 19 9 19 16 12]
```

Edge Histogram for image 723:

```
[2640 3514 2555 1855 1281 932 725 506 403 326 258 214 208 143
 145 117 96 74 62 56 53 39 41 31 24 13 16 10
 11 6 5 8 5 7 2 3]
```

Edge Histogram for image 724:

```
[3302 3506 2354 1523 1006 799 679 504 377 353 303 233 202 181
 138 130 119 94 87 85 65 55 49 55 47 32 27 21
 16 7 11 9 4 5 4 2]
```

Edge Histogram for image 725:

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[2584	2506	1836	1354	1064	993	855	772	643	518	487	405	409	315
278	216	186	186	142	120	110	98	59	66	49	42	29	15
16	14	8	4	2	1	0	2]						

Edge Histogram for image 726:

[3532	2321	1653	1412	1205	1040	842	694	571	513	362	327	351	276
218	194	154	114	104	97	69	65	58	50	38	28	27	23
12	11	9	4	5	1	2	2]						

Edge Histogram for image 727:

[3927	4015	2026	1340	908	743	527	434	361	300	252	196	162	152
133	112	98	91	70	57	55	45	43	32	59	41	43	30
31	26	28	22	11	7	5	2]						

Edge Histogram for image 728:

[2203	4025	3173	1982	1264	873	619	421	369	311	235	174	149	103
84	69	70	47	30	40	25	29	19	13	9	12	6	5
4	6	5	4	2	1	1	2]						

Edge Histogram for image 729:

[3393	3022	2522	1830	1240	946	643	495	405	309	272	221	177	154
105	102	86	79	56	51	41	38	28	34	16	21	23	14
11	10	11	9	7	9	2	2]						

Edge Histogram for image 730:

[1349	2833	2793	2088	1598	1118	829	678	530	465	396	321	266	223
177	157	118	108	77	71	48	36	25	19	14	12	10	8
3	6	3	1	2	0	1	1]						

Edge Histogram for image 731:

[1889	3510	3050	2305	1568	1051	773	501	372	297	194	139	122	80
63	58	51	44	33	22	27	26	28	21	20	25	27	21
17	15	13	9	6	3	3	1]						

Edge Histogram for image 732:

[3270	3543	2559	1798	1244	865	598	429	352	278	235	186	151	131
109	106	79	59	55	49	40	29	35	35	20	23	8	22
20	12	13	10	13	5	2	1]						

Edge Histogram for image 733:

[3311	3792	2567	1637	1214	841	632	480	358	283	217	163	151	129
94	77	55	55	59	41	38	35	29	24	23	23	19	10
7	5	2	5	2	1	2	3	3]					

Edge Histogram for image 734:

[6205	2869	1411	994	761	648	515	480	389	330	290	245	200	176
155	152	121	103	65	48	54	45	25	28	19	12	9	6
6	6	5	6	0	2	3	1]						

Edge Histogram for image 735:

[7503	2863	1625	1235	828	537	357	258	222	153	151	142	95	67
78	36	31	24	13	23	16	15	16	21	42	4	5	3
6	4	1	1	1	1	3	4]						

Edge Histogram for image 736:

[2858	4067	2994	1936	1209	778	551	394	313	215	174	141	137	98
73	68	70	51	46	33	31	27	21	16	20	14	10	8

7	7	6	4	1	3	1	2]
---	---	---	---	---	---	---	----

Edge Histogram for image 737:

[4525	4713	2703	1438	808	538	353	284	180	145	118	99	79	67
54	36	26	36	14	24	18	10	14	22	15	8	5	5
7	7	10	6	4	7	2	4]						

Edge Histogram for image 738:

[1436	3072	3165	2549	1839	1256	878	537	395	308	195	166	114	78
81	59	52	27	35	24	11	14	13	12	7	15	7	6
6	2	5	12	5	1	1	1]						

Edge Histogram for image 739:

[3375	2683	2108	1823	1407	1089	803	613	485	307	269	206	184	153
136	119	88	77	57	64	45	45	34	25	30	24	26	20
24	17	14	7	13	5	7	2]						

Edge Histogram for image 740:

[1687	2831	2673	2121	1734	1246	986	739	548	422	300	242	178	134
107	86	65	53	26	28	32	26	21	20	24	20	10	13
1	6	0	0	1	3	0	1]						

Edge Histogram for image 741:

[1598	2752	2846	2314	1747	1185	882	631	475	355	308	224	194	140
108	124	113	112	61	56	46	33	18	19	15	6	3	2
3	1	3	2	3	0	3	2]						

Edge Histogram for image 742:

[2181	3485	2296	1602	1263	1012	810	629	543	461	352	284	223	184
155	124	125	104	87	62	61	66	47	38	40	38	36	18
19	10	10	6	7	1	3	2]						

Edge Histogram for image 743:

[3378	1989	1975	1825	1638	1295	1012	803	542	387	330	246	176	142
111	104	68	53	43	38	35	20	25	30	19	21	14	7
8	6	12	8	7	11	4	2]						

Edge Histogram for image 744:

[1436	2263	2060	1613	1230	968	834	759	632	549	457	442	386	319
273	249	250	231	198	199	161	150	126	107	88	98	73	69
34	39	35	26	16	10	1	3]						

Edge Histogram for image 745:

[1208	2693	2929	2322	1774	1152	853	660	517	395	293	269	232	194
149	130	112	90	83	73	54	42	29	30	22	18	16	10
7	7	8	6	5	1	0	1]						

Edge Histogram for image 746:

[1227	2392	2567	2160	1736	1320	1034	881	666	543	381	328	260	196
140	117	95	84	60	38	23	14	23	17	17	17	12	8
7	10	1	3	3	0	3	1]						

Edge Histogram for image 747:

[2290	3663	2851	2005	1410	943	650	513	389	310	245	224	178	141
145	89	71	51	56	47	23	22	15	12	11	7	2	1
7	5	2	1	2	1	0	2]						

Edge Histogram for image 748:

```
[3124 3793 2183 1346 1045 899 713 561 460 352 300 240 240 174
 139 104 113 73 66 54 52 56 38 29 40 37 20 34
 15 19 16 22 10 10 4 3]
```

Edge Histogram for image 749:

```
[ 469 1088 1355 1461 1560 1553 1397 1370 1112 934 856 678 519 457
 366 282 240 175 122 103 65 63 50 30 15 18 13 8
 8 7 2 2 1 2 0 3]
```

Edge Histogram for image 750:

```
[ 532 1236 1610 1755 1752 1586 1482 1127 999 790 650 554 423 374
 284 240 206 159 135 90 93 67 51 47 36 20 20 14
 17 10 9 4 3 5 2 2]
```

Edge Histogram for image 751:

```
[1657 2124 2183 1980 1664 1383 1094 889 724 546 459 363 278 190
 160 143 123 90 63 68 34 42 28 33 15 15 9 12
 7 2 2 1 1 0 0 2]
```

Edge Histogram for image 752:

```
[4378 3455 2334 1573 1066 773 616 444 331 261 195 137 120 91
 80 75 67 53 76 47 54 29 15 14 13 11 10 15
 11 8 3 6 7 8 4 4]
```

Edge Histogram for image 753:

```
[2461 2494 2415 2134 1780 1290 1011 697 536 405 264 181 140 112
 90 74 53 56 45 23 15 16 14 21 11 7 13 6
 5 6 3 3 1 1 0 1]
```

Edge Histogram for image 754:

```
[1486 2224 2260 2017 1697 1418 1171 932 680 585 464 350 274 217
 151 85 67 63 62 43 35 20 17 23 9 11 6 6
 2 2 2 1 1 2 0 1]
```

Edge Histogram for image 755:

```
[2193 2762 1983 1617 1424 1234 944 792 684 577 463 376 286 214
 195 134 98 87 67 56 43 44 31 16 8 7 12 5
 7 8 1 4 5 3 1 3]
```

Edge Histogram for image 756:

```
[1100 2080 2364 2241 1972 1495 1164 900 635 495 361 273 234 170
 163 135 110 107 78 72 60 46 29 33 25 16 8 9
 5 1 0 0 1 0 1 1]
```

Edge Histogram for image 757:

```
[2606 2388 1997 1676 1478 1183 922 825 654 523 442 371 258 234
 153 118 96 103 89 53 43 27 28 26 17 14 14 10
 8 8 6 6 4 2 1 1]
```

Edge Histogram for image 758:

```
[1370 2538 2678 2404 1877 1463 1052 803 529 371 268 212 145 129
 106 70 62 64 56 48 31 26 19 14 6 2 6 1
 12 9 6 1 2 1 0 3]
```

Edge Histogram for image 759:

```
[ 840 1905 2229 2076 1854 1618 1317 1013 842 652 470 342 275 205
```

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152	115	97	69	49	52	39	24	20	18	23	19	15	13
9	10	5	8	2	6	0	1]						

Edge Histogram for image 760:

[4166	2494	1718	1324	1105	951	771	600	482	406	348	301	270	211
184	149	131	105	108	88	72	71	50	37	38	28	27	30
29	28	22	16	7	11	4	2]						

Edge Histogram for image 761:

[1435	1949	1829	1787	1672	1438	1189	999	813	647	537	478	346	285
221	182	118	87	84	59	44	46	30	15	15	16	15	19
11	6	6	3	1	0	0	2]						

Edge Histogram for image 762:

[1004	1642	1758	1714	1659	1498	1312	1136	899	693	606	492	388	313
263	185	163	138	115	85	80	54	52	43	27	19	10	11
9	7	4	0	1	0	1	3]						

Edge Histogram for image 763:

[1339	2179	2198	2036	1754	1559	1253	960	682	527	437	324	274	179
150	126	88	70	69	39	36	21	29	8	16	8	7	8
1	2	2	0	0	1	0	2]						

Edge Histogram for image 764:

[2585	2884	2176	1574	1269	1021	845	718	567	438	420	318	286	240
208	169	116	106	95	51	60	55	28	31	21	31	12	10
18	6	9	7	1	3	3	3]						

Edge Histogram for image 765:

[4027	2758	2037	1586	1378	1057	775	620	459	337	262	177	147	115
85	81	83	54	40	32	40	22	16	22	21	24	15	21
25	18	12	15	10	7	2	4]						

Edge Histogram for image 766:

[3800	3181	2751	2002	1385	914	623	416	302	209	138	114	90	71
59	49	47	58	45	33	26	21	11	14	5	4	4	1
3	1	0	0	2	2	0	3]						

Edge Histogram for image 767:

[3741	2757	1762	1483	1182	940	771	635	516	414	316	254	227	164
179	105	114	74	72	77	78	62	73	61	60	46	45	41
37	44	31	8	6	4	3	2]						

Edge Histogram for image 768:

[3578	3110	1965	1530	1118	892	762	601	480	434	307	296	210	209
138	144	104	80	84	65	55	40	40	32	19	16	15	17
21	10	4	2	2	1	1	2]						

Edge Histogram for image 769:

[626	1407	1733	1625	1500	1362	1213	984	933	778	648	572	532	437
368	312	242	209	189	151	134	89	91	65	44	31	31	19
15	16	11	5	5	3	3	1]						

Edge Histogram for image 770:

[3438	2742	1588	1172	1047	984	841	743	631	542	440	401	348	265
230	191	160	128	106	82	73	51	38	31	24	15	21	11
8	7	7	9	5	2	2	1]						

Edge Histogram for image 771:

[2170	3284	2761	1939	1319	951	773	578	482	329	289	231	182	144
146	114	84	70	82	63	60	68	53	34	28	20	25	19
14	25	15	10	11	3	7	1]						

Edge Histogram for image 772:

[1773	3121	2619	1993	1559	1220	878	699	516	412	311	252	207	181
119	118	81	60	53	39	32	26	14	15	22	13	12	10
14	6	4	3	1	0	0	1]						

Edge Histogram for image 773:

[1478	2853	2437	1978	1533	1131	884	695	556	457	339	249	225	208
168	149	131	106	88	108	71	62	64	81	62	46	54	49
44	24	19	12	13	5	3	2]						

Edge Histogram for image 774:

[3161	3742	2563	1845	1334	971	717	539	345	281	187	137	125	77
67	44	46	43	23	21	25	11	15	12	3	12	8	6
6	4	4	2	1	2	1	4]						

Edge Histogram for image 775:

[2106	2515	2225	1686	1374	1087	938	741	618	505	430	406	348	257
213	175	164	116	91	85	61	57	52	34	29	5	12	15
8	8	4	5	3	6	3	2]						

Edge Histogram for image 776:

[1906	2226	2050	1849	1492	1342	1040	855	673	550	430	369	300	232
201	174	136	119	84	71	59	47	37	34	22	26	23	6
10	6	4	2	4	1	2	2]						

Edge Histogram for image 777:

[2332	2122	1666	1450	1332	1151	1033	861	812	662	564	455	366	282
226	189	167	139	101	98	78	49	68	34	42	27	13	18
9	12	10	5	3	5	1	2]						

Edge Histogram for image 778:

[2884	4237	3133	1988	1289	814	546	321	241	189	128	101	75	66
66	45	58	44	27	29	19	18	10	6	7	5	3	9
7	5	2	1	4	5	1	1]						

Edge Histogram for image 779:

[835	1786	1915	1949	1783	1616	1303	1140	874	697	529	431	344	263
195	149	109	116	83	65	43	37	28	20	20	15	10	6
5	2	5	4	4	2	0	1]						

Edge Histogram for image 780:

[1359	1680	1669	1608	1554	1428	1177	998	875	613	538	434	380	288
222	191	163	143	132	113	127	102	86	102	89	82	70	50
22	27	25	8	13	8	3	5]						

Edge Histogram for image 781:

[5399	2005	1717	1676	1373	997	782	578	424	313	236	180	147	105
82	69	51	43	41	28	21	22	13	18	15	12	13	4
6	7	2	1	1	2	0	1]						

Edge Histogram for image 782:

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[3715	2006	1904	1563	1365	1214	966	752	590	440	363	287	253	200
155	140	82	75	55	55	44	39	39	18	12	11	10	8
12	5	1	2	1	0	1	1	1					

Edge Histogram for image 783:

[3298	2560	2519	2026	1595	1232	840	584	486	314	207	161	107	85
63	35	33	24	23	17	17	8	11	13	11	8	9	15
12	18	17	8	10	10	4	4						

Edge Histogram for image 784:

[1552	2656	2599	2169	1667	1202	925	684	475	390	322	269	246	226
189	147	144	94	97	82	61	50	47	22	10	12	12	12
7	5	1	3	2	3	1	1						

Edge Histogram for image 785:

[4107	3322	1971	1390	1038	823	615	505	390	286	252	220	180	166
157	154	126	109	87	76	74	50	53	43	32	36	21	28
11	12	18	13	7	5	3	4						

Edge Histogram for image 786:

[3256	2733	2280	1841	1347	997	811	596	457	335	283	222	173	137
111	92	89	69	59	41	33	35	24	17	19	17	15	22
22	17	20	30	73	47	43	21						

Edge Histogram for image 787:

[1396	2916	3047	2623	1868	1360	919	614	435	289	199	153	115	93
73	68	34	32	27	20	20	16	10	10	8	6	7	3
2	4	4	5	2	4	1	1						

Edge Histogram for image 788:

[2216	3140	2571	1866	1341	975	799	602	489	374	334	278	235	189
143	125	120	87	88	81	57	46	47	31	28	24	11	24
17	14	9	7	6	6	3	1						

Edge Histogram for image 789:

[4053	2941	2018	1490	1187	916	798	630	542	374	331	237	179	151
124	104	96	61	43	40	25	20	7	8	2	4	1	0
0	0	0	0	0	0	1	1						

Edge Histogram for image 790:

[2726	4165	2840	1799	1058	745	610	467	387	267	274	203	145	149
109	96	59	53	42	24	19	14	11	11	16	15	15	8
5	10	4	15	8	3	5	7						

Edge Histogram for image 791:

[1570	2219	2364	2119	1746	1370	1029	762	599	446	424	338	278	196
162	152	132	87	86	71	63	43	39	25	15	14	11	6
6	7	1	0	2	1	0	1						

Edge Histogram for image 792:

[3252	4000	2985	1890	1264	800	603	426	249	209	141	127	80	78
48	42	32	30	19	15	16	6	6	5	5	14	10	4
11	5	4	3	1	2	1	1						

Edge Histogram for image 793:

[4910	2068	1708	1422	1170	852	626	482	401	303	273	246	209	167
173	145	144	128	111	89	98	104	100	69	52	59	59	47

41	38	32	30	14	5	6	3]
----	----	----	----	----	---	---	----

Edge Histogram for image 794:

1852	2835	2546	2090	1483	1130	940	754	614	478	371	271	189	157
121	88	73	56	49	42	57	40	33	21	23	15	13	16
3	8	2	5	3	2	3	1]						

Edge Histogram for image 795:

1792	2118	2263	2155	1704	1341	1104	809	618	435	349	315	229	166
157	147	97	111	82	67	67	49	42	32	34	31	18	14
11	8	6	4	5	3	0	1]						

Edge Histogram for image 796:

4767	4279	2343	1319	791	568	433	276	240	207	152	152	127	113
99	98	78	76	51	47	52	25	24	16	18	12	5	2
4	3	1	0	4	0	0	2]						

Edge Histogram for image 797:

2221	2307	2068	1954	1601	1366	1136	896	674	512	355	331	203	180
125	88	66	69	48	41	25	22	10	15	17	7	8	8
7	5	5	6	2	3	1	2]						

Edge Histogram for image 798:

1284	2876	2962	2505	1824	1252	910	633	463	323	247	204	140	132
117	95	78	58	50	38	30	33	35	27	14	13	11	9
7	2	3	3	2	1	1	2]						

Edge Histogram for image 799:

1273	2389	2594	2199	1763	1393	1020	798	616	483	366	296	258	220
173	118	102	71	68	42	30	28	23	23	10	12	2	4
5	2	1	0	0	0	1	1	1]					

Edge Histogram for image 800:

1044	2152	2198	2140	1884	1550	1283	963	801	589	430	357	250	190
130	108	69	64	34	44	16	22	17	13	11	9	2	4
5	1	2	1	0	0	0	0	1]					

Edge Histogram for image 801:

1568	3173	3192	2442	1836	1232	806	565	398	271	238	174	137	92
66	44	27	19	11	20	11	11	7	11	5	2	9	5
1	2	1	3	2	1	0	2]						

Edge Histogram for image 802:

895	2071	2564	2291	1941	1505	1174	960	721	516	407	314	248	172
145	100	94	57	54	26	24	20	17	13	9	9	11	5
5	5	3	1	3	3	0	1]						

Edge Histogram for image 803:

3236	2418	2306	1778	1343	1078	861	687	524	430	338	262	205	176
147	125	103	77	69	47	30	24	21	30	9	8	10	10
11	3	3	5	2	2	4	2]						

Edge Histogram for image 804:

3158	2388	1915	1471	1156	912	762	555	518	436	342	300	255	240
242	237	189	169	128	137	120	115	106	85	84	59	57	60
50	46	28	23	21	12	4	4	4]					

Edge Histogram for image 805:

2885	3273	2228	1756	1338	1094	792	605	443	375	267	242	197	184
153	108	86	84	71	51	38	31	20	20	13	6	6	2
4	2	1	2	1	2	2	2	2	2	2	2	2	2

Edge Histogram for image 806:

1095	2220	2284	2139	1868	1456	1175	859	723	506	430	332	271	214
168	137	114	85	60	59	45	29	30	16	14	13	10	8
8	1	4	4	2	2	1	2	2	2	2	2	2	2

Edge Histogram for image 807:

2691	2714	2080	1695	1280	1060	859	756	562	469	419	362	324	236
196	138	122	91	71	74	54	24	28	17	16	14	7	6
6	2	2	3	0	2	1	3	2	2	2	2	2	2

Edge Histogram for image 808:

1063	2514	2719	2370	1920	1380	1060	829	670	467	339	249	194	158
121	94	72	49	36	25	11	13	7	7	4	1	2	2
0	2	0	3	1	1	0	1	2	2	2	2	2	2

Edge Histogram for image 809:

1118	2228	1956	1904	1549	1357	1086	917	817	654	536	463	354	283
206	180	131	113	90	100	59	50	45	56	33	24	18	17
5	11	6	5	5	2	4	2	2	2	2	2	2	2

Edge Histogram for image 810:

1192	2332	2405	1896	1470	1104	930	754	635	517	412	372	322	256
237	215	177	183	164	147	120	84	92	92	60	38	45	33
27	20	20	12	7	5	3	6	2	2	2	2	2	2

Edge Histogram for image 811:

779	1799	2245	2171	1794	1537	1181	852	727	586	499	448	332	269
231	166	151	119	70	79	51	44	40	29	18	37	27	24
20	15	16	5	6	7	5	5	5	2	2	2	2	2

Edge Histogram for image 812:

4021	3979	2683	1702	1209	801	591	388	274	221	127	104	68	52
39	27	23	16	7	16	6	8	5	4	0	1	1	2
3	1	2	1	0	0	1	1	2	2	2	2	2	2

Edge Histogram for image 813:

1100	2142	2257	2002	1663	1235	947	859	696	576	480	433	337	279
261	203	180	155	116	99	62	70	51	48	37	32	12	17
9	9	7	5	2	2	0	1	2	2	2	2	2	2

Edge Histogram for image 814:

843	1926	2246	2139	1836	1565	1243	1023	748	565	465	353	304	236
197	148	120	92	86	61	57	30	28	15	10	12	11	5
5	3	1	4	5	0	0	2	2	2	2	2	2	2

Edge Histogram for image 815:

2090	3540	2830	1943	1438	1033	801	618	469	336	272	205	143	139
106	101	75	43	40	38	30	18	13	7	12	12	4	4
3	3	6	3	2	3	2	2	2	2	2	2	2	2

Edge Histogram for image 816:

1847	2090	2356	2152	1832	1498	1171	890	705	497	332	272	185	132
------	------	------	------	------	------	------	-----	-----	-----	-----	-----	-----	-----

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108	82	59	38	34	21	17	20	7	9	8	4	5	3
4	0	0	4	0	0	1	1	1					

Edge Histogram for image 817:

1786	2438	2383	2147	1820	1362	1012	789	576	418	294	250	195	164
102	106	82	69	66	51	43	50	35	32	25	21	15	8
7	8	5	9	5	3	5	3						

Edge Histogram for image 818:

1973	3755	3230	2313	1533	1069	697	494	316	241	154	104	78	71
49	45	48	25	27	17	17	14	18	13	15	10	11	6
11	6	9	3	6	2	3	1						

Edge Histogram for image 819:

2762	2706	2414	1970	1719	1151	912	679	520	390	249	207	141	102
87	70	52	53	27	24	36	24	16	17	9	13	10	9
0	1	1	3	3	3	2	2						

Edge Histogram for image 820:

5122	3810	1878	1173	811	658	510	430	307	250	261	186	165	119
110	114	98	84	65	37	39	23	27	30	21	7	10	6
9	7	2	3	4	1	1	6						

Edge Histogram for image 821:

842	1686	1906	1816	1633	1504	1314	1101	934	775	627	462	404	305
236	175	160	127	89	74	51	32	25	18	20	17	12	8
9	9	4	2	3	1	1	2						

Edge Histogram for image 822:

1454	2695	2746	2184	1640	1258	881	724	592	403	315	275	213	190
145	109	101	87	62	55	34	24	32	27	18	22	20	12
16	8	9	7	11	9	2	4						

Edge Histogram for image 823:

643	1532	2069	2213	2059	1668	1374	1094	865	638	476	438	283	217
176	135	107	81	66	43	42	38	29	26	18	16	9	8
6	3	4	2	1	1	0	4						

Edge Histogram for image 824:

1068	2240	2219	1972	1663	1341	1097	904	748	555	447	360	295	237
202	181	142	112	102	86	63	58	54	49	36	33	28	22
17	11	9	10	10	6	3	4						

Edge Histogram for image 825:

1552	3036	2856	2166	1494	1135	861	610	429	364	273	205	179	158
141	136	120	104	74	70	60	49	50	48	44	32	28	22
20	15	12	18	7	6	7	3						

Edge Histogram for image 826:

745	1829	2252	2332	1932	1650	1331	1037	778	628	477	306	245	197
167	99	93	77	44	45	21	26	14	11	11	3	10	5
9	4	0	2	2	1	0	1						

Edge Histogram for image 827:

666	1827	2436	2472	2129	1833	1322	975	683	464	389	284	171	146
118	71	54	61	44	33	36	29	29	30	21	18	12	8
6	5	5	2	2	2	0	1						

Edge Histogram for image 828:

```
[5163 2979 1986 1415 1102 855 672 477 353 275 190 128 116 75
 58   56   56   49   44   41   34   31   30   27   22   23   27   19
 21   16   13   15   4    9   1    2]
```

Edge Histogram for image 829:

```
[3161 2547 2307 1926 1517 1153 930 690 494 384 322 237 158 134
 100   64   60   42   43   17   29   17   13   9   10   6   4   4
 1     0    1    0    2    0    0    2]
```

Edge Histogram for image 830:

```
[1044 1987 2120 1752 1587 1303 1171 964 835 727 567 433 346 319
 244   182   157   126   110   91   62   54   52   35   20   24   26   12
 10    6    2    5    3    2    3    3]
```

Edge Histogram for image 831:

```
[1753 1338 1637 1620 1569 1428 1225 1067 900 770 613 501 396 299
 274   202   164   119   90   78   69   68   45   34   30   31   10   9
 8    14    4    4    8    3    3    1]
```

Edge Histogram for image 832:

```
[1732 2660 2384 2050 1689 1399 1013 784 651 444 337 269 192 169
 136   107   69   77   39   36   37   21   21   17   15   7   9   7
 4    0    3    2    1    2    0    1]
```

Edge Histogram for image 833:

```
[1102 2055 2135 2006 1777 1454 1283 1011 748 595 513 374 239 213
 173   139   132   83   65   55   54   34   32   23   20   12   21   16
 7    3    3    3    0    3    0    1]
```

Edge Histogram for image 834:

```
[2647 3233 2436 1801 1409 1077 791 617 456 359 285 235 179 160
 95   104   55   78   55   41   45   40   24   25   28   25   26   10
 11   14   10    5    3    3    1    1]
```

Edge Histogram for image 835:

```
[1668 2570 2313 1886 1624 1300 1078 888 654 535 404 280 220 193
 149   120   100   75   57   38   55   48   18   21   19   18   15   12
 10    3    8    1    1    1    0    2]
```

Edge Histogram for image 836:

```
[3954 3002 1882 1474 1178 975 820 634 427 354 301 267 202 183
 166   101   101   58   54   43   44   27   34   26   17   11   12   9
 8    6    2    5    4    1    1    1]
```

Edge Histogram for image 837:

```
[1664 2957 2738 2101 1474 1035 808 649 483 408 328 302 223 180
 160   139   136   101   85   67   76   76   44   34   33   25   17   11
 8    5    8    2    2    3    0    2]
```

Edge Histogram for image 838:

```
[4054 2266 1886 1594 1175 990 756 598 517 397 342 306 237 222
 184   150   142   91   94   84   62   56   37   26   39   22   23   11
 6    4    3    3    1    2    2    2]
```

Edge Histogram for image 839:

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[1459	2657	2386	2184	1691	1242	985	741	640	503	371	329	248	175
135	133	111	66	62	53	39	27	21	27	23	14	11	8
9	9	8	5	7	2	0	3]						

Edge Histogram for image 840:

[2030	3357	2785	2116	1468	1072	733	566	453	339	276	192	161	142
105	83	89	65	55	50	38	38	31	28	24	16	15	20
11	10	4	3	2	5	0	2]						

Edge Histogram for image 841:

[3202	2044	2005	1876	1592	1262	1024	730	561	377	278	244	179	185
122	117	90	79	61	57	50	39	33	26	34	15	14	16
16	14	11	11	10	7	1	2]						

Edge Histogram for image 842:

[1078	1586	1550	1417	1223	1106	1025	902	827	743	731	609	580	465
389	371	308	271	244	187	164	129	113	105	62	47	42	34
19	24	16	7	6	3	0	1]						

Edge Histogram for image 843:

[3945	4159	2101	1121	794	632	476	428	354	304	273	250	232	168
170	151	130	134	122	85	74	59	49	49	20	25	11	22
10	8	10	4	5	3	4	2]						

Edge Histogram for image 844:

[999	2334	2774	2481	2115	1549	1077	783	527	380	297	248	181	134
113	93	66	45	42	34	27	19	20	8	11	9	8	3
0	3	1	2	0	0	0	1]						

Edge Histogram for image 845:

[2191	3121	2689	1945	1535	1175	897	642	491	348	297	232	169	136
115	70	72	42	41	34	23	19	20	19	13	14	12	5
5	4	1	4	2	0	0	1]						

Edge Histogram for image 846:

[798	1946	2578	2517	2248	1732	1295	930	640	462	318	233	159	129
80	71	53	38	34	29	21	11	15	7	7	4	3	8
9	5	1	0	1	1	0	1]						

Edge Histogram for image 847:

[1144	2380	2573	2349	1907	1406	1150	797	618	513	342	247	168	172
105	109	78	58	51	45	31	47	16	17	13	8	8	7
7	2	4	7	1	0	1	3]						

Edge Histogram for image 848:

[1811	2844	2243	1737	1424	1152	945	779	630	544	439	332	310	215
194	139	125	119	81	72	61	42	38	21	15	23	16	8
5	5	3	3	3	2	3	1]						

Edge Histogram for image 849:

[1083	2360	2617	2388	1892	1377	981	715	564	424	348	276	197	219
139	147	113	119	93	71	54	54	29	34	28	20	10	10
8	3	2	2	4	0	1	2]						

Edge Histogram for image 850:

[1406	2417	2435	2106	1713	1343	1058	801	629	458	367	289	235	176
165	127	122	97	85	73	79	62	41	31	15	16	11	9

6	3	1	3	1	1	2	1]
---	---	---	---	---	---	---	----

Edge Histogram for image 851:

739	1758	2238	2407	2077	1609	1238	979	716	513	418	332	246	211
160	136	94	87	74	70	43	47	47	34	16	15	22	11
17	6	5	7	6	2	1	3]						

Edge Histogram for image 852:

2000	2779	2186	1530	1131	849	718	646	524	469	476	381	358	342
294	272	261	211	160	171	119	101	89	80	53	39	43	38
23	13	11	5	5	5	1	1]						

Edge Histogram for image 853:

1787	2923	2753	2155	1590	1111	767	580	456	360	314	267	214	168
169	133	122	93	70	52	61	48	31	24	21	15	10	15
10	13	12	8	8	9	7	8]						

Edge Histogram for image 854:

1760	2900	2799	2083	1504	1148	812	658	500	413	295	244	230	190
159	142	113	100	64	55	46	31	26	22	22	7	10	15
9	5	10	4	3	1	2	2]						

Edge Histogram for image 855:

1536	2481	2512	1987	1492	1128	985	770	626	528	408	329	262	262
192	138	135	113	85	63	65	58	47	42	31	25	21	14
7	16	5	3	2	5	4	7]						

Edge Histogram for image 856:

2047	3518	3072	2213	1549	1087	777	559	403	290	208	156	105	88
59	46	31	28	16	14	16	18	15	18	17	8	7	3
5	1	2	4	1	1	1	1]						

Edge Histogram for image 857:

2446	2664	2460	2167	1618	1279	958	705	490	385	269	225	158	119
100	88	41	44	39	22	20	18	11	12	7	7	6	7
1	4	2	2	2	3	3	2]						

Edge Histogram for image 858:

1902	3249	2871	2226	1501	908	589	390	319	264	265	242	196	175
159	106	81	98	93	91	85	76	74	74	70	69	57	42
34	32	15	10	8	8	4	1]						

Edge Histogram for image 859:

998	2172	2221	1827	1560	1234	1051	865	704	610	525	450	365	289
239	228	190	175	123	104	99	88	52	54	42	33	26	21
12	12	8	2	1	0	2	2]						

Edge Histogram for image 860:

1818	2988	2424	1809	1310	1067	895	740	612	480	378	342	285	205
198	156	117	105	70	73	72	50	43	32	37	18	20	13
9	6	5	3	2	1	0	1]						

Edge Histogram for image 861:

6976	2318	1615	1197	782	566	392	301	217	205	208	189	171	155
155	137	123	128	97	95	77	74	42	34	37	27	22	11
9	11	3	3	3	1	2	1]						

Edge Histogram for image 862:

```
[3054 3948 2545 1609 1272 917 662 529 378 321 241 192 154 154 130
 115   66   56   37   28   27   19    9   14    7   10    5    5    5   9
    7     5     5     2     3     0     0     3]
```

Edge Histogram for image 863:

```
[1551 2848 2712 2314 1883 1356 902 593 446 325 240 189 143 143 105
 103   68   76   71   57   49   46   53   30   30   25   30   32   32   15
  14    12    27   21   13    3    1    1]
```

Edge Histogram for image 864:

```
[1739 3091 3106 2390 1657 1160 748 519 416 297 237 149 134 134 106
 85    55   44   49   57   55   52   38   49   36   32   24   16   16   15
 10    7    5    2    1    1    1    1]
```

Edge Histogram for image 865:

```
[1268 2077 2081 1978 1761 1441 1207 956 748 610 445 366 300 222
 214   141  118  106   81   62   37   37   32   16   25   14   6    8
 10    4    2    3    3    1    2    2]
```

Edge Histogram for image 866:

```
[1173 2611 3054 2712 1948 1392 956 649 464 334 264 197 109 109 101
 63    62   56   33   35   24   37   9    14   23   14   13   5    4
  6    2    7    5    2    0    4    2]
```

Edge Histogram for image 867:

```
[1803 3532 2685 2073 1562 1180 879 657 495 369 292 230 182 113
 80    63   42   39   28   20   17   15    8    7    2    2    2    1
  1    1    2    0    0    1    0    1]
```

Edge Histogram for image 868:

```
[ 772 1753 2295 2150 1974 1677 1316 1056 869 661 483 360 262 190
 127 115   77   69   49   38   21   23   11    7    8    6    3    2
   2    3    0    1    2    1    0    1]
```

Edge Histogram for image 869:

```
[3330 3490 2851 1995 1342 835 616 445 341 276 194 149 114 114 79
 54    49   42   38   35   25   22   10   10   13   3    8    2    5
   2    3    2    2    1    0    0    1]
```

Edge Histogram for image 870:

```
[1025 1791 1817 1692 1459 1347 1084 1021 808 674 578 534 459 347
 309 285 246 186 146 100 82 72 52 49 54 49 32 26
 23 16   6    5    4    3    2    1]
```

Edge Histogram for image 871:

```
[1489 2255 2278 1960 1611 1225 1091 884 655 511 476 385 362 274
 215 178 116 74 66 68 47 27 32 23 15 12 11 13
   9    8    3    3    2    4    0    2]
```

Edge Histogram for image 872:

```
[1997 3278 2881 2086 1476 1115 814 604 457 377 315 243 169 115
 93   76   71   59   38   25   18   25   14   11    7    3    3    6
   3    1    1    1    1    0    0    1]
```

Edge Histogram for image 873:

```
[1232 2563 2889 2631 2102 1519 1053 716 458 328 254 184 118 63]
```

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46	46	35	34	28	21	19	16	4	5	4	6	3	1
2	0	1	1	0	1	0	1]						

Edge Histogram for image 874:

[3237	3560	2830	2152	1405	986	609	433	262	191	146	117	93	66
39	43	31	22	14	16	7	10	10	10	9	9	9	8
8	13	5	7	3	7	11	6]						

Edge Histogram for image 875:

[550	1429	1925	2110	2093	1837	1495	1169	877	686	577	432	301	216
177	124	82	69	44	41	26	21	16	18	18	6	10	4
13	6	4	2	1	3	0	2]						

Edge Histogram for image 876:

[3775	4486	2356	1442	901	625	464	385	283	248	214	176	166	156
121	85	76	70	67	51	44	33	22	31	25	21	9	16
13	13	3	3	2	1	0	1]						

Edge Histogram for image 877:

[5702	4071	2434	1385	867	486	321	218	171	114	82	70	61	50
46	43	25	26	23	17	17	14	17	8	9	15	9	8
6	11	14	17	13	8	4	2]						

Edge Histogram for image 878:

[1180	2439	2560	2291	1803	1379	1027	731	518	370	334	286	236	199
126	165	102	92	69	64	53	64	44	39	27	35	20	27
23	22	23	12	10	6	3	5]						

Edge Histogram for image 879:

[1395	2794	2795	2357	1887	1444	1026	762	569	380	266	189	136	95
74	45	35	27	27	17	14	8	8	6	2	2	4	5
2	1	1	4	1	2	2	2]						

Edge Histogram for image 880:

[3449	3343	2332	1750	1398	1055	786	546	416	322	219	173	131	92
73	55	47	26	22	31	21	16	11	12	13	7	10	8
3	4	2	4	1	2	2	2]						

Edge Histogram for image 881:

[1097	2103	2306	2100	1813	1599	1205	1014	703	556	412	300	241	155
154	154	111	74	65	50	46	24	27	13	11	9	11	9
8	4	2	2	0	2	1	3]						

Edge Histogram for image 882:

[1125	2053	2375	2258	1865	1456	1221	901	681	520	417	336	268	234
171	114	105	61	64	33	34	35	16	9	13	4	2	2
4	0	0	0	1	2	1	3]						

Edge Histogram for image 883:

[2444	3179	2213	1575	1065	854	627	456	409	341	289	253	236	243
204	177	167	149	139	141	155	122	116	121	96	101	113	81
90	77	52	38	30	18	8	5]						

Edge Histogram for image 884:

[3242	2634	2033	1668	1297	1107	871	665	534	416	333	273	240	201
195	131	95	69	64	60	53	40	29	26	33	14	15	5
6	8	10	6	4	2	2	3]						

Edge Histogram for image 885:

```
[ 608 1491 2023 2198 2034 1688 1407 1100 812 613 504 406 282 251
  173 150 109 101 66 71 50 54 34 27 20 24 12 12
   15    4  12   6  10   9   4   4 ]
```

Edge Histogram for image 886:

```
[ 645 1701 2230 2312 2124 1686 1244 1055 729 546 413 303 247 200
  158 113 115 94 99 53 51 41 37 50 38 28 23 18
   10    4   6   1   5   1   1   3 ]
```

Edge Histogram for image 887:

```
[3990 2978 2174 1596 1115 889 676 509 437 331 336 246 195 160
 129 110 90 89 74 47 46 41 33 16 16 16 9 6
   5    5   6   1   4   5   2   2 ]
```

Edge Histogram for image 888:

```
[ 889 1773 1884 1833 1535 1388 1228 983 796 650 531 433 339 313
 281 210 198 183 132 110 94 93 87 71 70 55 57 34
   40   27   22   25   14   3   1   2 ]
```

Edge Histogram for image 889:

```
[4152 2926 2049 1548 1147 848 676 531 406 331 295 245 199 156
 153 118 112 97 87 59 54 48 33 23 22 14 12 7
   8    5   3   2   5   4   4   5 ]
```

Edge Histogram for image 890:

```
[2102 3114 2673 1934 1329 1101 776 581 487 403 386 242 230 209
 169 138 118 92 84 55 43 36 26 16 11 9 5 4
   4    1   2   0   1   1   0   2 ]
```

Edge Histogram for image 891:

```
[ 825 1789 1824 1808 1641 1401 1154 999 794 643 515 434 391 329
 287 242 177 167 117 120 107 93 79 74 68 68 52 52
   38   26   22   23   11   8   3   3 ]
```

Edge Histogram for image 892:

```
[2319 3346 2630 1859 1236 985 732 535 458 318 269 237 189 156
 149 111 94 88 85 74 81 60 68 48 44 41 36 27
   19   20   19   25   8   11   5   2 ]
```

Edge Histogram for image 893:

```
[2229 2683 2162 1842 1504 1244 1016 832 630 449 365 259 219 163
 134 104 72 77 53 43 38 35 35 27 25 20 32 19
   20   13   9   10   8   5   6   2 ]
```

Edge Histogram for image 894:

```
[ 847 2095 2503 2297 1961 1523 1133 885 678 473 355 278 254 164
 143 104 97 86 59 58 59 52 51 50 42 33 31 19
   13   18   11   4   5   1   0   2 ]
```

Edge Histogram for image 895:

```
[2767 3082 2269 1785 1279 1078 820 652 515 404 316 244 184 178
 121 113 70 73 57 52 39 41 36 32 21 20 21 13
   18   23   18   17   9   7   3   7 ]
```

Edge Histogram for image 896:

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918	1998	2262	2166	1919	1523	1129	881	702	560	472	312	281	231
156	144	131	121	101	65	57	39	42	19	26	22	30	17
23	7	13	8	3	2	2	2						

Edge Histogram for image 897:

1605	2913	2651	2174	1682	1350	976	780	579	403	290	216	168	139
107	68	64	39	38	32	29	15	14	11	8	8	5	4
2	2	2	2	1	0	1	6						

Edge Histogram for image 898:

708	1574	1877	1911	1716	1590	1259	1045	849	679	551	514	422	355
259	259	167	175	112	88	67	61	33	26	15	14	20	11
7	7	3	4	3	0	2	1						

Edge Histogram for image 899:

2226	2892	2605	1832	1345	936	693	551	433	355	324	293	259	265
178	155	144	144	125	122	96	98	73	46	45	49	29	25
13	12	9	4	2	4	0	2						

Edge Histogram for image 900:

2969	3394	2256	1801	1407	981	704	527	383	315	243	189	170	151
118	114	81	90	100	77	48	38	52	52	32	22	15	13
13	4	6	6	3	5	3	2						

Edge Histogram for image 901:

1748	3129	2723	1988	1565	1101	788	601	427	375	312	287	207	198
172	118	114	109	77	65	41	44	39	40	30	26	22	14
5	9	1	2	1	2	2	2						

Edge Histogram for image 902:

584	1394	1693	1861	1766	1533	1340	1147	964	725	645	543	414	334
284	211	160	145	135	106	76	64	45	37	41	36	30	19
14	8	5	9	4	3	6	3						

Edge Histogram for image 903:

4234	3761	2255	1538	1011	793	576	448	311	257	200	186	138	122
116	94	52	59	45	53	24	15	16	17	14	7	8	8
7	6	4	5	1	0	0	3						

Edge Histogram for image 904:

1515	2953	2945	2243	1647	1171	851	657	468	356	285	240	183	173
121	127	102	69	77	49	31	26	17	18	7	7	3	11
5	3	2	4	3	7	6	2						

Edge Histogram for image 905:

1837	2578	2289	1988	1693	1372	1093	779	657	461	395	243	199	151
159	94	84	53	58	38	29	26	24	20	9	12	6	9
5	9	1	4	3	1	2	3						

Edge Histogram for image 906:

1500	2977	2841	2287	1791	1191	823	618	535	365	310	225	213	137
103	101	64	52	54	35	30	16	19	15	13	13	5	3
7	4	6	10	9	5	2	5						

Edge Histogram for image 907:

3225	2329	1936	1707	1387	1167	904	726	577	501	390	330	282	257
160	120	88	51	47	38	21	31	17	11	9	12	12	8

10	8	6	3	2	5	5	2]
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Edge Histogram for image 908:

[1649	2520	2402	2162	1510	1142	924	691	524	465	375	342	245	238
191	178	142	123	97	84	80	46	53	33	44	21	20	18
24	10	10	11	6	1	1	2]						

Edge Histogram for image 909:

[4023	3588	2812	1940	1167	776	566	372	262	182	157	136	90	42
52	40	25	23	13	10	8	10	8	6	6	9	6	8
11	6	8	9	3	1	8	1]						

Edge Histogram for image 910:

[2107	2753	2606	2156	1652	1083	798	633	463	344	310	255	208	147
130	113	127	86	65	51	41	49	51	38	30	24	13	8
13	3	6	8	3	2	5	3]						

Edge Histogram for image 911:

[2578	3634	2614	1866	1281	1008	722	558	440	351	283	191	166	164
118	81	70	57	36	39	27	24	14	10	18	11	7	3
4	1	3	2	0	2	0	1]						

Edge Histogram for image 912:

[1700	3098	2428	1755	1309	1085	835	734	557	475	390	312	272	215
182	156	135	120	94	81	77	64	59	37	43	39	32	17
20	15	12	11	6	4	7	8]						

Edge Histogram for image 913:

[1372	2437	2247	2003	1609	1242	1027	882	675	574	509	368	293	235
179	154	143	103	65	56	52	30	36	20	17	13	11	6
8	2	5	5	2	0	3	1]						

Edge Histogram for image 914:

[488	1206	1546	1667	1680	1577	1472	1250	1047	901	710	599	470	360
282	248	197	173	113	91	76	52	41	31	28	19	22	9
9	2	1	2	1	2	6	6	6]					

Edge Histogram for image 915:

[4003	3730	2533	1519	1080	718	561	413	355	265	220	226	197	117
102	82	51	47	36	30	24	17	9	9	8	6	4	4
1	9	3	2	1	0	0	0	2]					

Edge Histogram for image 916:

[1523	3001	3057	2641	1834	1270	897	650	403	282	200	161	109	74
46	43	28	30	27	22	16	12	10	7	6	6	7	7
1	4	1	2	2	3	1	1	1]					

Edge Histogram for image 917:

[3688	3408	2595	1772	1217	863	544	412	315	221	212	169	130	137
104	102	80	74	55	39	37	38	19	29	25	18	11	14
13	7	12	8	7	2	2	2	5]					

Edge Histogram for image 918:

[2571	2250	2061	1885	1594	1254	1075	820	657	506	376	273	235	187
137	95	73	55	57	48	29	29	27	27	7	8	9	10
3	10	5	4	3	2	0	2]						

Edge Histogram for image 919:

```
[1181 2408 2715 2392 1934 1428 1033 768 575 459 349 246 181 147
 121   88   74   56   40   35   29   33   14   21   16   11    6    7
   6     0    2    1    1    3    2    2]
```

Edge Histogram for image 920:

```
[1223 2695 2944 2382 1863 1376 1013 685 505 374 273 232 158 125
 97   80   62   55   45   37   21   17   21   18   13   19   20    6
   4     4    8    4    3    0    1    1]
```

Edge Histogram for image 921:

```
[ 775 1875 2271 2296 1975 1619 1378 1030 790 596 442 309 259 196
 137 112  91   64   44   34   16   22   14   14    5   10    5    1
   1     1    0    1    0    0    0    1]
```

Edge Histogram for image 922:

```
[ 722 1696 1930 1976 1784 1535 1309 980 888 725 549 458 350 305
 226 177 157 138  99   69   79   69   46   27   34   22   12    6
   5     0    2    3    1    2    2    1]
```

Edge Histogram for image 923:

```
[ 619 1262 1581 1738 1699 1609 1344 1239 1053 765 664 544 461 345
 257 239 192 142 137  97   79   56   52   47   39   22   30    19
   12    8   15    5    3    1    3    6]
```

Edge Histogram for image 924:

```
[1387 2792 2846 2306 1929 1426 1085 732 489 323 247 174 152 96
 83   68   45   48   35   31   17   10   15    3    2    6    8    4
   5     5    4    1    2    3    3    2]
```

Edge Histogram for image 925:

```
[1736 3307 3045 2281 1600 1127 802 608 415 340 234 190 159 102
 95   67   45   42   38   23   19   19   15    9    8    5    11    9
   5     2    5    3    7    4    5    2]
```

Edge Histogram for image 926:

```
[1799 3455 3170 2478 1685 1124 844 506 350 247 199 124 89 79
 54   51   36   24   14   14   11   11    2    2    4    3    2    1
   1     2    0    2    0    0    0    1]
```

Edge Histogram for image 927:

```
[1067 2166 2237 2079 1684 1369 1100 869 737 577 451 357 284 292
 220 184 145 118  93   85   58   37   37   19   26   16   14    19
   12    10   4    6    4    4    2    2]
```

Edge Histogram for image 928:

```
[1848 3710 3173 1991 1239  803  631  444  403  302  291  209  215  184
 144 109 125  90   72   80   60   49   41   38   30   28   30    16
   9     8    2    3    3    1    0    3]
```

Edge Histogram for image 929:

```
[5306 2891 2308 1716 1182  721  523  343  249  182  138  131  106  91
 65   55   59   29   32   34   18   10   16   15   10   18   14    15
   16    8   18    8   10   20   13   14]
```

Edge Histogram for image 930:

```
[2227 3772 3292 2159 1507  916  656  435  312  259  193  132  121  93]
```

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69 2	55 2	44 1	30 2	14 2	14 1	14 0	12 2]	14	8	5	11	5	3
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Edge Histogram for image 931:

4775 159 13	2371 129 12	1839 118 8	1554 92 3	1114 78 7	853 80 5	683 56 1	536 54 2]	426 30 1	358 27 3	281 34 7	259 15 3	227 13 2]	157 15 3
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Edge Histogram for image 932:

4034 162 14	3672 127 5	2079 120 6	1337 107 5	963 71 2	793 69 5	586 47 4	471 55 4]	347 51 4]	297 36 4]	255 29 2]	212 36 24]	191 36 24]	154 14 14]
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Edge Histogram for image 933:

3237 93 26	2885 72 25	2331 83 24	1825 81 20	1426 85 11	971 62 15	778 67 3	618 41 9]	398 59 9]	313 51 36]	212 36 41]	185 41 50]	125 41 50]	98 28 28]
------------------	------------------	------------------	------------------	------------------	-----------------	----------------	-----------------	-----------------	------------------	------------------	------------------	------------------	-----------------

Edge Histogram for image 934:

2653 108 0	3526 84 1	2863 76 3	2011 49 0	1392 54 1	918 46 2	696 34 2	471 30 1]	350 16 1]	292 15 1]	225 6 1]	197 7 1]	128 5 4]	118 4 4]
------------------	-----------------	-----------------	-----------------	-----------------	----------------	----------------	-----------------	-----------------	-----------------	----------------	----------------	----------------	----------------

Edge Histogram for image 935:

544 221 6	1369 140 5	1741 136 5	1848 89 6	1859 67 3	1753 64 0	1543 41 2	1258 26 1]	943 24 1]	819 26 13]	686 16 11]	439 15 11]	374 17 4]	285 13 5]
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Edge Histogram for image 936:

2108 211 4	1835 140 0	1835 110 2	1793 96 8	1570 51 2	1363 44 4	1203 31 0	983 24 2]	793 22 2]	642 13 2]	525 11 1]	414 18 4]	290 18 4]	228 5 5]
------------------	------------------	------------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	----------------

Edge Histogram for image 937:

967 101 18	1970 83 12	2341 52 18	2313 44 45	2024 41 19	1674 19 18	1282 19 11	998 12 5]	730 18 5]	477 19 16]	378 16 12]	260 12 19]	209 12 19]	149 11 11]
------------------	------------------	------------------	------------------	------------------	------------------	------------------	-----------------	-----------------	------------------	------------------	------------------	------------------	------------------

Edge Histogram for image 938:

2479 163 9	2986 126 7	2415 124 8	1879 100 12	1377 74 3	1055 64 8	725 48 5	545 51 3]	488 43 3]	394 34 31]	332 31 20]	295 20 12]	236 30 12]	203 12 12]
------------------	------------------	------------------	-------------------	-----------------	-----------------	----------------	-----------------	-----------------	------------------	------------------	------------------	------------------	------------------

Edge Histogram for image 939:

3758 162 31	1502 153 33	1540 111 24	1476 105 21	1388 97 7	1250 88 15	951 55 2	814 75 2]	694 58 2]	550 49 2]	447 35 2]	344 36 26]	264 26 26]	205 16 16]
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Edge Histogram for image 940:

1219 166 12	2438 156 12	2401 112 8	2081 67 8	1615 66 7	1304 52 3	1048 36 0	811 38 2]	676 38 2]	569 23 2]	439 21 20]	368 21 17]	314 20 17]	221 16 16]
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Edge Histogram for image 941:

3044 136 13	3860 104 13	2499 99 8	1670 82 12	1128 74 4	804 68 7	639 59 3	460 48 3]	371 38 2]	277 26 2]	226 24 26]	205 26 26]	171 26 26]	138 20 20]
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Edge Histogram for image 942:

```
[2040 2053 2044 1928 1723 1327 1111 886 732 589 437 336 222 193
 149 133 98 85 63 69 38 32 28 15 16 8 7 6
   9   3   2   0   0   1   0   1]
```

Edge Histogram for image 943:

```
[1954 2369 2107 1799 1573 1315 1096 905 671 556 419 319 285 205
 175 144 110 87 79 54 39 27 30 19 11 10 7 3
   4   3   2   0   2   3   0   2]
```

Edge Histogram for image 944:

```
[2000 3072 2883 2219 1576 1089 731 578 436 309 228 186 167 132
 122 92 73 66 51 48 40 45 42 22 23 26 20 19
   20 21 17 10 9 6 1 5]
```

Edge Histogram for image 945:

```
[1317 2221 2247 2107 1732 1382 1047 774 640 491 389 309 263 221
 237 179 142 117 97 85 76 64 55 38 30 33 14 16
   12 15 13 7 5 6 1 2]
```

Edge Histogram for image 946:

```
[4291 3412 2413 1750 1183 796 557 435 317 244 176 138 128 113
 83 67 67 69 56 47 21 6 2 6 1 1 0 2
   0   0   1   1   0   0   0   1]
```

Edge Histogram for image 947:

```
[1287 2107 2239 2203 1823 1379 1090 901 659 536 425 364 286 223
 179 131 121 85 68 49 48 36 35 33 22 13 7 6
   6   8   5   1   5   1   1   2]
```

Edge Histogram for image 948:

```
[3295 3569 2448 1542 1053 837 648 502 411 297 250 224 181 196
 154 131 94 97 76 72 63 51 42 24 25 27 18 16
   12   9   4   6   2   1   4   3]
```

Edge Histogram for image 949:

```
[2651 3451 3105 2224 1570 1030 685 449 340 235 154 126 75 52
 39 34 24 16 17 9 10 15 14 9 8 6 4 5
   10   5   1   3   3   2   1   2]
```

Edge Histogram for image 950:

```
[1841 3200 3006 2387 1740 1171 790 592 398 311 230 186 132 100
 72 66 45 19 31 13 13 9 7 7 2 2 0 2
   3   2   2   2   1   1   0   1]
```

Edge Histogram for image 951:

```
[1153 2736 3195 2683 2146 1359 901 627 426 297 212 156 133 79
 55 45 40 37 29 27 9 10 10 4 2 2 1 3
   1   1   1   0   2   1   0   1]
```

Edge Histogram for image 952:

```
[1281 2718 2872 2483 1840 1419 1092 692 524 384 290 183 128 108
 65 52 41 35 20 23 29 26 12 4 12 8 3 13
   8   5   3   4   1   3   1   2]
```

Edge Histogram for image 953:

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```
[ 678 1590 2211 2313 2133 1826 1493 1113 830 600 449 312 217 160
  107   86   53   51   35    25   13   17   10     7     8     6     8   11
      5     5     7     2     1     1     0     1 ]
```

Edge Histogram for image 954:

```
[1033 1987 2006 1895 1744 1568 1341 1050 820 653 512 356 301 223
  182 163 112 81 71 56 44 43 32 25 17 25 9 8
      9     6     2     6     2     1     0     1 ]
```

Edge Histogram for image 955:

```
[ 803 1763 2112 1878 1684 1401 1100 881 720 603 525 463 384 319
  292 225 176 173 148 135 119 89 81 72 46 43 33 39
      29     17     8     11     3     2     5     2 ]
```

Edge Histogram for image 956:

```
[1636 2640 2511 2278 1751 1367 1088 778 521 441 311 207 173 123
  95  72  65  40  36  22  26  19  22  21  17  13  12  28
      14     11     4     5     5     9     15     8 ]
```

Edge Histogram for image 957:

```
[ 612 1278 1586 1767 1791 1610 1380 1203 1032 817 635 560 418 323
  287 198 163 139 100 69 73 59 48 36 32 26 27 19
      23     21     11     7     14     14     0     6 ]
```

Edge Histogram for image 958:

```
[ 753 1597 1856 1828 1568 1468 1237 1098 895 703 623 526 412 357
  267 245 194 146 119 104 76 62 59 38 34 24 15 16
      12     12     13     7     5     6     4     5 ]
```

Edge Histogram for image 959:

```
[1663 2280 2169 2015 1674 1357 1171 940 764 543 474 364 221 168
  136 106 75 57 53 37 26 21 13 11 19 7 3 2
      1     3     3     2     2     3     0     1 ]
```

Edge Histogram for image 960:

```
[2983 3153 2470 1650 1234 876 688 506 408 352 293 239 236 216
  175 182 140 118 106 79 65 51 35 32 24 13 19 7
      12     5     5     3     5     2     1     1 ]
```

Edge Histogram for image 961:

```
[ 958 1792 2034 1987 1829 1469 1204 975 851 611 471 416 299 270
  224 189 164 117 95 88 66 58 57 34 27 29 18 17
      10     5     7     3     3     1     2     4 ]
```

Edge Histogram for image 962:

```
[1185 2265 2423 2240 1954 1582 1208 887 696 495 380 295 213 158
  101  73  63  43  21  12  26  16  12  11  9  3  4  3
      2     1     0     1     1     0     0     1 ]
```

Edge Histogram for image 963:

```
[1238 2673 2861 2461 1795 1353 1027 725 514 390 326 210 161 114
  95  99  55  45  37  38  22  24  21  13  17  10  7  10
      11     9     5     5     2     7     2     2 ]
```

Edge Histogram for image 964:

```
[2393 3470 2763 1990 1470 1071 711 510 389 307 237 182 150 122
  97  82  57  51  54  57  41  30  28  31  17  24  11  18
```

4	2	2	1	4	5	1	2]
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Edge Histogram for image 965:

[1695	2672	2139	1595	1229	953	862	695	630	581	494	459	362	350
278	236	194	175	174	113	87	86	68	42	55	43	28	32
13	11	9	7	5	3	4	5]						

Edge Histogram for image 966:

[1118	2036	2342	2105	1717	1402	1043	879	700	540	423	373	263	213
206	158	127	113	70	69	66	66	52	60	41	40	37	31
21	20	21	11	10	3	4	4]						

Edge Histogram for image 967:

[3533	2972	2250	1587	1154	887	733	562	485	367	331	233	240	181
150	127	80	76	69	57	53	39	33	29	34	18	18	17
15	13	13	9	11	4	1	3]						

Edge Histogram for image 968:

[4110	3512	2421	1684	1210	826	614	421	349	245	198	140	121	104
72	64	59	62	43	28	22	19	12	10	7	6	4	6
5	3	2	2	1	1	0	1]						

Edge Histogram for image 969:

[6728	2799	1679	1240	896	625	500	402	293	225	170	114	110	89
83	63	66	59	38	39	36	25	27	25	22	9	7	5
1	2	3	3	0	0	0	0]						

Edge Histogram for image 970:

[1078	2096	2120	1819	1610	1312	1109	931	755	654	541	467	387	277
238	189	157	125	106	80	64	52	56	39	36	20	16	10
8	12	5	8	3	3	0	1]						

Edge Histogram for image 971:

[3451	3637	2223	1342	969	755	659	536	480	439	348	281	237	182
133	127	90	80	88	68	48	46	36	27	16	19	12	8
6	9	9	11	6	2	2	2]						

Edge Histogram for image 972:

[1998	3041	2281	1709	1359	1042	820	658	565	449	400	278	278	241
228	159	139	125	103	99	78	66	54	42	32	26	30	25
17	16	10	9	3	1	1	1	2]					

Edge Histogram for image 973:

[3049	3546	2817	1832	1119	810	596	454	363	263	249	205	155	139
102	91	66	87	65	55	54	44	39	35	27	18	10	15
11	7	13	10	7	10	16	5]						

Edge Histogram for image 974:

[2674	3325	2074	1541	1296	1035	835	637	498	422	329	282	217	192
148	136	120	99	63	63	65	50	46	42	39	29	29	28
15	16	13	9	6	6	1	4]						

Edge Histogram for image 975:

[3380	2401	2279	1876	1600	1267	929	596	446	366	242	192	167	128
94	68	56	57	28	28	29	26	25	22	15	10	5	8
10	9	7	9	6	0	2	1]						

Edge Histogram for image 976:

```
[1313 2260 2090 1627 1318 1010 855 684 665 529 481 396 399 294
 278 265 241 253 205 202 163 150 126 132 114 86 52 57
 45 38 25 14 4 5 5 3]
```

Edge Histogram for image 977:

```
[1236 2819 2986 2352 1614 1223 849 627 464 392 326 277 205 171
 159 115 108 94 64 66 57 53 28 18 16 22 10 13
 5 7 3 1 3 0 0 1]
```

Edge Histogram for image 978:

```
[1081 2354 2596 2197 1738 1418 1074 794 628 505 413 318 248 214
 168 114 106 75 75 49 35 32 24 19 21 20 14 12
 11 8 5 2 2 7 4 3]
```

Edge Histogram for image 979:

```
[2146 3705 2974 2003 1430 970 654 523 363 321 229 203 182 163
 115 77 62 64 46 36 33 22 13 8 10 6 8 4
 2 1 3 2 0 3 1 2]
```

Edge Histogram for image 980:

```
[3693 3982 2177 1351 1052 774 619 442 370 310 238 212 179 150
 137 105 73 65 71 46 49 45 44 26 24 26 14 21
 25 27 10 9 9 2 5 2]
```

Edge Histogram for image 981:

```
[ 641 1370 1832 1912 1871 1695 1454 1165 994 777 603 465 366 287
 240 180 140 85 80 58 46 41 22 14 19 4 5 5
 3 3 3 1 1 1 0 1]
```

Edge Histogram for image 982:

```
[ 465 1230 1631 1844 1666 1614 1401 1209 957 800 664 591 441 367
 261 244 210 164 137 110 100 66 53 45 18 21 17 18
 10 4 6 9 3 4 3 1]
```

Edge Histogram for image 983:

```
[1581 1986 2041 1985 1710 1384 1124 867 796 578 446 383 311 242
 179 148 115 96 79 47 45 48 42 44 29 17 9 11
 9 9 12 6 1 1 0 3]
```

Edge Histogram for image 984:

```
[3531 3583 2622 1997 1401 991 655 441 300 209 148 91 68 73
 70 49 27 23 23 18 10 10 14 8 3 5 1 2
 1 2 2 1 2 2 0 1]
```

Edge Histogram for image 985:

```
[4322 3589 2417 1542 1099 837 554 403 318 216 185 139 117 87
 89 69 80 54 43 42 40 26 22 7 11 13 13 10
 7 7 5 5 2 6 7 1]
```

Edge Histogram for image 986:

```
[2602 2936 2617 2145 1671 1146 902 660 470 295 188 155 107 99
 85 66 39 42 29 28 13 18 12 14 10 8 8 5
 4 5 2 2 0 0 0 1]
```

Edge Histogram for image 987:

```
[1314 2428 2400 2048 1720 1352 1132 892 732 500 459 305 239 198]
```

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149	104	64	86	61	41	37	31	19	18	12	9	12	9
3	3	2	3	1	0	0	1]						

Edge Histogram for image 988:

2302	2864	1926	1581	1321	1148	968	855	683	608	426	381	285	241
177	135	111	77	57	48	39	16	30	34	19	12	7	3
5	8	6	4	4	0	1	2]						

Edge Histogram for image 989:

1545	2833	2973	2327	1720	1239	930	655	482	327	284	229	171	125
107	74	62	56	38	49	35	33	28	13	9	11	7	5
5	1	4	1	1	1	3	1]						

Edge Histogram for image 990:

1099	2105	2362	2264	1927	1520	1178	878	636	452	355	307	206	184
159	126	124	91	86	65	47	58	34	45	29	18	14	9
2	0	0	1	1	1	0	1]						

Edge Histogram for image 991:

2619	2510	2204	1845	1511	1121	978	749	598	500	380	306	225	159
132	117	92	55	59	47	36	37	22	19	19	3	8	9
4	4	7	5	1	0	1	2]						

Edge Histogram for image 992:

1628	2866	2861	2319	1816	1350	987	680	448	275	253	164	151	99
91	62	56	53	43	44	27	32	11	12	5	14	6	3
1	3	5	14	2	1	0	2]						

Edge Histogram for image 993:

4315	2463	1731	1418	1105	929	789	574	485	370	371	273	251	204
165	133	124	96	81	91	59	61	55	40	27	30	26	28
16	16	16	21	10	7	2	2]						

Edge Histogram for image 994:

1136	2467	2842	2426	1949	1483	1112	806	530	370	274	214	155	121
82	73	61	45	42	27	26	18	12	25	21	11	8	14
8	5	5	6	5	2	2	1]						

Edge Histogram for image 995:

722	1770	2178	2168	2067	1743	1348	1056	786	649	458	344	265	208
151	131	81	70	48	29	25	24	13	11	11	7	3	4
1	6	0	1	1	1	0	4]						

Edge Histogram for image 996:

1413	1963	1883	1776	1686	1418	1186	1019	835	656	543	430	357	286
220	145	122	107	62	64	43	39	26	20	12	17	9	9
10	16	7	1	2	0	1	1]						

Edge Histogram for image 997:

913	1776	2024	1897	1703	1525	1239	982	843	681	533	455	346	305
232	200	140	122	90	86	70	44	48	28	23	18	20	19
5	6	4	2	1	1	1	2]						

Edge Histogram for image 998:

1425	2605	2587	2223	1781	1416	1068	772	549	450	349	239	179	167
132	95	65	57	33	58	26	29	16	16	14	8	8	3
5	5	2	1	0	0	0	1]						

Edge Histogram for image 999:

```
[2575 3185 2179 1617 1294 944 787 688 559 459 398 310 242 211
 174 131 111 104 82 53 51 57 32 28 16 19 18 14
 17   6   7   4   4   5   2   1]
```

Edge Histogram for image 1000:

```
[4116 3047 2142 1689 1283 979 689 506 388 304 220 189 130 114
 76   60   55   52   52   38   28   31   29   18   20   13   15   18
 16   14   14   12   14   8    3   2]
```

Edge Histogram for image 1001:

```
[3813 3496 2918 1933 1274 800 573 390 277 166 145 100 91 61
 50   48   53   41   36   43   24   15   7    6   7   6   0   2
 1    0   1   1   1   3    0   2]
```

Edge Histogram for image 1002:

```
[3713 3273 2163 1446 1112 823 692 566 510 374 282 235 204 166
 127 101 118 77 71 67 50 47 24 31 18 19 7 12
 12   16   10   5   8   0   2   3]
```

Edge Histogram for image 1003:

```
[3448 2772 1858 1422 1286 998 783 638 511 428 345 263 222 164
 147 146 115 68 95 73 71 67 57 69 59 59 39 44
 31   31   25  23   8   6   7   6]
```

Edge Histogram for image 1004:

```
[ 678 1498 1735 1773 1514 1333 1154 1021 874 765 653 554 538 397
 359 267 245 212 171 147 120 87 72 53 38 27 35 13
 12   13   10   4   6   2   2   2]
```

Edge Histogram for image 1005:

```
[3474 2646 1560 1208 1058 954 856 762 596 529 493 412 351 278
 216 198 175 123 101 77 63 63 43 31 24 22 17 12
 10   8   6   12   2   1   2   1]
```

Edge Histogram for image 1006:

```
[2286 3504 2685 1800 1280 954 725 581 461 307 276 224 166 131
 150 127 95 90 68 73 61 57 55 39 24 34 37 13
 18   9   13  11   10   10   4   6]
```

Edge Histogram for image 1007:

```
[1476 2686 2606 1972 1540 1193 1020 775 601 470 370 293 278 218
 144 128 107 87 82 69 43 29 34 24 20 19 21 12
 15   7   13   7   8   8   4   5]
```

Edge Histogram for image 1008:

```
[1809 3204 2569 1935 1430 1069 782 638 498 366 294 232 194 165
 148 146 103 112 94 73 71 74 68 66 44 43 48 30
 22   23   10   8   6   4   5   1]
```

Edge Histogram for image 1009:

```
[3159 3673 2624 1814 1368 1068 720 473 376 253 174 133 100 86
 64   58   35   37   26   29   16   11   13   15   8   12   7   9
 6    4   3   2   2   3   1   2]
```

Edge Histogram for image 1010:

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[2140	2678	2264	1736	1349	1173	886	731	537	429	395	334	358	229
210	174	143	124	96	92	58	62	34	43	33	15	11	11
5	9	6	7	6	3	2	1]						

Edge Histogram for image 1011:

[1643	2512	2175	1904	1527	1254	1025	864	671	576	427	349	257	237
176	140	149	103	74	74	48	40	40	31	17	22	12	11
7	3	4	2	3	2	3	2]						

Edge Histogram for image 1012:

[2669	2875	2276	1912	1471	1194	980	780	577	423	331	211	148	109
101	80	44	42	34	24	21	12	15	12	12	12	5	4
3	2	0	2	1	0	0	2]						

Edge Histogram for image 1013:

[3058	4512	3195	1960	1158	731	479	308	197	155	113	94	77	64
57	43	42	32	24	6	17	9	7	6	5	5	5	10
4	1	4	1	1	2	1	1]						

Edge Histogram for image 1014:

[1183	2168	2269	2220	1874	1535	1218	962	696	528	405	305	241	180
146	99	87	57	51	34	35	17	16	10	10	7	8	6
3	2	5	2	2	1	0	2]						

Edge Histogram for image 1015:

[1623	2144	2160	1964	1619	1263	1012	724	581	488	364	293	262	245
189	193	172	141	127	113	109	97	89	58	60	82	61	36
47	27	14	6	5	6	7	3]						

Edge Histogram for image 1016:

[5044	2268	1821	1555	1320	1005	770	587	453	338	238	193	141	130
97	83	60	54	32	38	35	22	19	14	15	10	5	12
3	5	7	4	2	2	0	2]						

Edge Histogram for image 1017:

[3608	2163	1967	1619	1396	1136	951	785	533	453	334	315	215	176
132	118	104	73	64	55	33	40	32	19	15	11	7	13
7	3	2	2	0	1	0	2]						

Edge Histogram for image 1018:

[3291	2799	2497	2151	1528	1209	870	573	380	290	182	130	100	89
44	34	28	17	15	12	9	17	14	15	11	13	11	11
12	11	8	9	3	0	0	1]						

Edge Histogram for image 1019:

[1486	2743	2696	2222	1644	1125	863	668	516	374	302	306	260	230
170	153	145	95	79	65	59	52	36	20	15	13	10	8
8	4	1	3	4	6	1	2]						

Edge Histogram for image 1020:

[3890	3212	2083	1556	1107	803	625	492	360	309	266	233	199	153
150	155	126	114	84	65	61	56	48	40	37	29	23	22
17	13	15	15	7	11	3	5]						

Edge Histogram for image 1021:

[3382	3027	2320	1814	1365	1002	730	517	436	318	249	180	134	111
106	90	61	54	41	37	26	38	33	30	26	22	26	24

25	25	33	27	53	13	3	6]
----	----	----	----	----	----	---	----

Edge Histogram for image 1022:

[1822	4036	3710	2441	1399	850	620	378	258	210	142	126	79	57
63	39	31	19	23	14	9	10	13	4	4	4	5	4
1	3	2	2	1	3	1	1						

Edge Histogram for image 1023:

[2235	3209	2674	1938	1379	984	756	537	462	370	316	240	228	184
114	109	109	94	78	63	58	48	29	22	24	16	22	24
13	14	11	12	6	2	3	1	1					

Edge Histogram for image 1024:

[3909	3192	2194	1551	1201	960	737	596	506	378	288	198	177	131
108	80	48	49	29	19	13	8	2	5	3	0	0	0
0	0	0	0	0	0	1	1	1					

Edge Histogram for image 1025:

[3208	4345	2702	1553	976	817	535	457	358	255	260	193	168	119
99	57	62	26	29	27	20	12	15	9	6	9	10	8
6	6	5	4	11	8	5	4	4					

Edge Histogram for image 1026:

[1614	2629	2489	2114	1606	1201	870	706	532	450	364	309	249	225
199	132	148	118	89	71	55	50	32	35	25	18	14	9
11	8	3	3	3	0	2	1	1					

Edge Histogram for image 1027:

[2738	3810	2929	1963	1348	987	632	501	351	238	160	145	110	79
59	67	41	40	32	36	13	10	10	14	4	5	9	9
7	5	8	6	2	5	6	5	5					

Edge Histogram for image 1028:

[4852	2271	1804	1478	1085	775	630	449	396	297	256	252	184	188
163	152	129	157	103	102	96	70	73	78	54	46	38	50
35	36	21	27	14	13	5	5	5					

Edge Histogram for image 1029:

[1806	2947	2660	2039	1474	1155	910	716	610	438	370	284	185	141
107	86	65	69	45	59	40	46	19	25	26	9	17	4
9	6	6	6	1	1	1	1	2					

Edge Histogram for image 1030:

[1735	2167	2335	2134	1774	1331	1039	793	602	468	348	280	219	185
142	134	111	97	85	70	63	44	49	38	27	29	24	15
12	9	7	5	5	1	4	3	3					

Edge Histogram for image 1031:

[6764	3932	1765	1033	693	458	321	260	234	156	141	109	97	103
64	60	34	18	23	18	15	14	10	7	6	6	9	7
6	3	5	4	4	2	2	1	1					

Edge Histogram for image 1032:

[4258	4437	2523	1421	885	588	411	290	236	176	156	168	119	118
93	83	78	79	68	43	25	42	30	20	12	5	2	1
8	1	0	3	2	0	1	2	2					

Edge Histogram for image 1033:

2574	2720	2505	2025	1732	1270	953	732	521	375	251	199	95	119
75	52	41	35	27	10	16	8	9	10	5	3	9	3
2	2	2	1	1	1	0	1						

Edge Histogram for image 1034:

1126	2715	2998	2551	1889	1341	956	671	495	329	253	197	157	135
109	83	66	59	49	32	27	25	39	20	13	13	11	11
2	2	4	2	2	1	0	1						

Edge Histogram for image 1035:

1295	2511	2635	2219	1776	1337	973	813	594	462	380	275	262	196
153	117	90	67	64	32	34	32	20	19	12	6	5	1
1	1	0	0	0	0	1	1						

Edge Histogram for image 1036:

1089	2365	2406	2252	1937	1620	1193	896	712	519	392	250	209	144
117	73	50	36	35	23	18	17	10	6	4	3	1	3
0	2	0	1	0	0	0	0	1					

Edge Histogram for image 1037:

1598	3339	3223	2521	1757	1233	771	527	362	259	216	167	126	69
55	27	20	22	17	10	15	10	12	6	7	3	1	2
2	0	4	1	1	0	0	0	1					

Edge Histogram for image 1038:

841	1990	2528	2238	1946	1558	1233	956	697	550	439	331	229	208
155	94	91	72	52	33	30	23	10	12	10	15	8	7
5	6	7	3	1	2	2	2						

Edge Histogram for image 1039:

2976	2549	2004	1579	1183	950	697	579	519	388	324	310	289	253
243	216	153	154	131	137	109	90	83	78	58	67	69	54
36	38	19	24	11	8	4	2						

Edge Histogram for image 1040:

3407	2875	2398	1794	1301	1006	821	616	498	365	256	214	156	150
107	102	75	67	39	21	31	16	13	8	9	9	10	6
2	2	3	2	1	3	0	1						

Edge Histogram for image 1041:

2835	3353	2318	1839	1342	1015	786	567	474	332	296	223	188	139
161	113	95	84	56	42	25	31	17	19	12	2	6	4
1	0	0	2	3	1	1	1	2					

Edge Histogram for image 1042:

1191	2393	2520	2307	1806	1432	1087	733	662	483	384	321	227	178
136	124	75	66	57	47	40	27	20	13	15	9	6	7
2	3	4	2	3	1	2	1						

Edge Histogram for image 1043:

2735	2699	2141	1532	1275	1030	845	729	626	480	434	321	292	235
214	153	153	109	97	67	55	30	35	26	13	10	11	7
10	6	4	3	4	2	0	1						

Edge Histogram for image 1044:

1213	2665	2811	2343	1771	1368	1021	783	577	481	336	255	178	174
------	------	------	------	------	------	------	-----	-----	-----	-----	-----	-----	-----

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114	91	53	32	33	26	17	11	7	6	4	3	3	1
0	1	1	2	2	0	0	1]						

Edge Histogram for image 1045:

[1074	2183	2127	1867	1566	1352	1107	945	758	671	538	447	349	282
221	158	116	136	85	70	63	50	53	42	32	27	20	9
7	6	4	9	4	2	2	2]						

Edge Histogram for image 1046:

[1480	2860	2470	1842	1367	1058	867	684	563	444	408	327	295	261
234	189	161	152	126	96	93	76	75	59	54	38	24	25
21	14	5	6	3	4	1	2]						

Edge Histogram for image 1047:

[739	1873	2263	2156	1895	1488	1156	908	692	583	520	404	313	266
205	181	117	101	106	67	67	47	35	26	26	25	24	21
23	17	10	8	8	6	4	4]						

Edge Histogram for image 1048:

[4094	3937	2565	1798	1162	752	599	395	281	224	160	114	74	55
46	29	18	13	14	12	7	9	7	4	2	0	2	1
3	2	0	2	1	0	0	2]						

Edge Histogram for image 1049:

[823	2007	2303	2167	1879	1530	1233	982	753	533	446	345	292	222
194	159	126	88	55	66	38	33	30	19	18	7	14	0
2	3	7	2	1	5	1	1]						

Edge Histogram for image 1050:

[1366	2776	2451	1983	1442	1100	892	728	588	485	434	354	321	239
217	183	157	119	97	91	65	53	57	47	29	25	19	17
14	4	8	8	1	9	2	3]						

Edge Histogram for image 1051:

[1999	3391	2991	2103	1451	1082	770	568	480	347	261	179	144	114
113	82	69	41	39	36	31	23	16	6	11	7	1	3
5	5	4	1	4	2	2	3]						

Edge Histogram for image 1052:

[1941	2628	2596	2285	1753	1361	1030	744	573	443	279	201	146	106
73	55	37	27	24	14	20	13	7	6	5	4	2	4
4	1	0	0	0	1	0	1]						

Edge Histogram for image 1053:

[1708	2740	2545	2238	1758	1340	983	730	506	374	258	210	178	146
95	98	68	60	54	51	49	34	29	24	26	16	12	8
9	3	4	8	11	7	3	1]						

Edge Histogram for image 1054:

[2334	3964	3022	2090	1514	1010	658	457	350	231	169	102	79	65
52	43	39	27	21	17	17	17	13	11	16	12	9	6
6	9	7	4	5	5	0	3]						

Edge Histogram for image 1055:

[1836	2662	2795	2500	1879	1377	1014	656	416	341	224	147	112	81
62	54	34	32	28	19	18	13	15	7	8	5	10	5
5	6	9	4	3	3	2	2]						

Edge Histogram for image 1056:

5362	3710	1909	1144	851	641	471	370	337	270	225	193	152	125
110	106	88	70	65	32	26	16	19	16	11	11	7	9
10	8	6	5	4	2	1	2						

Edge Histogram for image 1057:

2824	2880	2507	2031	1582	1189	841	650	468	370	238	140	147	115
67	54	60	47	21	21	30	26	12	15	6	10	8	4
2	4	3	1	4	4	0	3						

Edge Histogram for image 1058:

899	1888	2006	1901	1617	1534	1345	1039	888	786	564	451	325	247
210	168	136	97	68	52	37	24	15	21	13	15	14	3
6	6	1	4	0	1	2	1						

Edge Histogram for image 1059:

2045	3334	2767	2088	1469	1009	788	631	435	371	273	204	214	153
90	98	71	57	47	48	25	24	20	17	24	11	16	6
10	7	10	5	3	6	6	2						

Edge Histogram for image 1060:

842	2123	2475	2372	1977	1601	1244	976	743	513	356	310	191	140
91	90	59	52	39	28	31	24	19	23	16	16	12	10
2	1	2	1	1	1	0	3						

Edge Histogram for image 1061:

1448	2652	2470	2131	1696	1315	967	736	606	400	328	274	203	203
158	118	114	79	81	70	68	46	37	38	25	26	25	15
18	9	8	8	1	6	1	4						

Edge Histogram for image 1062:

1845	3311	2923	2136	1539	958	672	544	346	293	230	189	197	147
138	130	116	76	81	71	65	63	45	50	32	37	28	23
15	15	17	15	12	7	12	6						

Edge Histogram for image 1063:

573	1575	2007	2094	1964	1735	1313	1097	926	711	550	410	311	261
176	145	124	97	83	41	51	34	22	23	8	7	5	15
5	7	4	4	2	1	0	3						

Edge Histogram for image 1064:

1003	2418	2816	2602	2096	1533	1010	767	536	386	254	190	149	100
80	64	71	64	34	39	28	24	31	23	20	5	10	9
6	5	4	2	2	0	1	2						

Edge Histogram for image 1065:

5479	2932	1849	1390	1122	822	657	469	346	233	191	120	108	64
66	43	47	66	41	44	32	32	30	27	27	29	16	25
20	13	11	11	8	5	6	3						

Edge Histogram for image 1066:

3465	2968	2432	1877	1476	1090	799	602	409	304	237	192	128	91
66	57	48	42	27	20	13	9	12	7	1	3	2	3
1	0	0	0	0	1	1	1						

Edge Histogram for image 1067:

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[1593	2549	2263	1846	1629	1373	1093	845	710	547	399	327	259	223
157	116	90	82	53	52	46	37	23	15	16	11	7	6
4	1	5	0	2	2	0	3]						

Edge Histogram for image 1068:

[1625	1629	1721	1773	1647	1356	1201	1059	811	662	570	461	360	314
269	185	146	114	79	71	46	44	45	39	33	41	20	11
11	7	9	5	5	6	5	4]						

Edge Histogram for image 1069:

[1797	2729	2590	2102	1689	1337	1000	758	545	414	301	211	200	140
123	93	68	56	47	42	34	20	33	7	13	13	3	4
4	1	2	3	1	1	1	2]						

Edge Histogram for image 1070:

[1003	2077	2158	2041	1783	1523	1268	938	764	591	516	378	253	232
176	137	84	107	63	61	53	35	33	21	22	25	8	15
10	3	0	1	3	0	1	1]						

Edge Histogram for image 1071:

[2750	3143	2304	1811	1408	1079	779	610	507	386	284	222	183	145
135	112	66	93	62	35	39	30	31	31	16	23	24	15
18	14	9	8	4	4	0	4]						

Edge Histogram for image 1072:

[1673	2819	2517	1994	1564	1223	1004	771	627	476	371	267	195	168
130	116	82	72	66	34	37	37	30	19	15	20	12	15
10	5	5	4	1	2	1	2]						

Edge Histogram for image 1073:

[3928	2999	2026	1563	1205	973	738	594	474	322	304	224	211	158
128	94	95	70	54	39	35	29	33	20	16	14	7	8
4	6	2	2	4	4	0	1]						

Edge Histogram for image 1074:

[1821	3275	2865	1978	1417	1047	776	557	456	421	318	250	211	171
145	117	104	81	74	81	49	41	37	25	15	12	16	6
5	5	0	4	1	2	0	1]						

Edge Histogram for image 1075:

[3923	2408	1959	1632	1229	918	754	613	490	417	326	275	241	204
187	158	114	101	103	77	54	31	43	31	34	18	16	7
10	2	1	2	1	1	2	2]						

Edge Histogram for image 1076:

[1295	2591	2321	2070	1766	1361	1024	821	619	519	386	310	252	189
179	120	132	68	66	45	38	39	27	25	23	21	14	10
10	8	9	3	6	6	6	5]						

Edge Histogram for image 1077:

[2021	3528	2868	2159	1475	995	786	551	409	320	228	176	154	106
90	87	68	58	58	43	36	30	22	21	21	8	20	15
15	6	3	1	2	1	0	3]						

Edge Histogram for image 1078:

[3151	2435	2254	1951	1561	1195	904	637	446	338	292	219	150	132
102	105	87	69	55	41	46	36	24	29	19	20	8	16

11	21	7	11	9	1	1	1]
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Edge Histogram for image 1079:

[1056	1687	1479	1391	1222	1116	1058	962	832	793	698	594	500	433
389	353	311	241	225	186	159	142	108	99	79	67	63	40
38	21	17	7	8	5	2	3]						

Edge Histogram for image 1080:

[4942	3805	1598	1046	779	638	490	430	364	347	258	237	218	182
138	148	122	138	94	82	63	65	46	37	29	18	16	11
9	6	11	6	5	2	2	2]						

Edge Histogram for image 1081:

[1940	2951	2632	2022	1595	1215	875	692	510	404	331	260	182	152
131	87	58	62	47	51	32	21	27	22	18	9	14	12
14	5	4	1	0	3	3	2]						

Edge Histogram for image 1082:

[768	1933	2497	2500	2046	1634	1212	879	657	509	344	254	224	178
127	116	90	80	56	48	47	41	35	23	19	15	14	11
6	8	4	5	0	2	1	1]						

Edge Histogram for image 1083:

[1094	2562	3056	2726	2117	1484	1016	653	485	324	220	142	117	83
58	55	38	30	25	18	18	15	5	5	9	5	4	3
5	3	3	1	3	0	1	1]						

Edge Histogram for image 1084:

[1020	2628	2793	2279	1851	1417	1036	782	608	461	341	236	173	144
124	93	68	51	55	53	40	37	19	18	12	10	5	7
7	4	2	6	3	0	0	1]						

Edge Histogram for image 1085:

[4518	3249	1793	1261	1128	910	781	606	467	382	297	229	185	122
105	79	75	56	38	20	17	18	14	12	1	8	5	4
0	1	1	0	1	0	0	1]						

Edge Histogram for image 1086:

[1132	2606	2826	2363	1824	1296	948	666	526	410	309	280	204	180
134	121	117	92	70	64	43	38	38	26	18	14	12	12
4	4	4	0	0	1	1	1]						

Edge Histogram for image 1087:

[1352	2669	2571	2038	1660	1278	1070	810	627	429	374	328	225	168
149	123	96	104	68	64	47	22	35	29	16	10	9	3
3	3	1	0	1	0	0	2]						

Edge Histogram for image 1088:

[865	2120	2583	2354	1984	1549	1129	855	611	508	399	278	232	176
145	98	89	78	59	54	44	39	25	26	18	14	13	13
5	3	3	4	4	2	4	1]						

Edge Histogram for image 1089:

[2170	3130	2176	1477	1069	874	760	636	570	466	421	389	391	327
282	241	210	131	135	112	96	68	76	44	36	27	14	16
18	11	2	3	2	1	0	3]						

Edge Histogram for image 1090:

2137	3468	2811	2013	1386	929	683	527	430	363	276	246	198	159
146	134	90	62	57	55	39	26	31	23	24	11	12	9
4	8	6	4	4	6	3	4						

Edge Histogram for image 1091:

1703	3077	2703	2116	1536	1097	831	658	491	392	322	255	204	198
149	140	92	79	81	61	40	30	26	18	16	11	8	8
11	5	6	9	6	1	3	1						

Edge Histogram for image 1092:

1770	3097	2557	1945	1469	1058	927	680	555	452	418	271	254	189
156	127	76	81	71	53	30	29	28	25	17	10	10	11
2	0	4	1	4	1	4	2						

Edge Histogram for image 1093:

2119	3674	3097	2190	1446	1157	683	545	376	298	204	132	98	72
77	40	26	19	8	11	8	8	8	9	8	28	22	7
5	1	3	2	2	0	0	1						

Edge Histogram for image 1094:

2442	3131	2708	2161	1570	1168	816	578	433	317	257	202	118	111
92	54	44	30	26	26	20	17	6	13	6	8	7	10
1	1	3	2	1	3	1	1						

Edge Histogram for image 1095:

1726	3249	2902	2233	1583	957	602	423	330	290	251	232	196	161
144	113	101	98	82	106	85	70	70	68	56	57	54	45
34	21	14	9	8	8	4	2						

Edge Histogram for image 1096:

1583	2909	2533	1957	1418	1054	841	687	587	519	417	364	273	222
186	156	129	105	88	90	57	45	27	28	32	19	16	10
7	4	10	7	0	2	1	1						

Edge Histogram for image 1097:

1855	2923	2404	1793	1364	1088	900	758	625	508	413	321	262	222
151	158	108	94	83	80	56	59	40	31	26	13	16	9
11	5	6	1	0	0	0	1						

Edge Histogram for image 1098:

6502	2780	1724	1154	780	532	430	277	248	234	199	212	188	173
150	143	127	111	76	74	58	54	37	21	24	20	17	19
2	4	4	5	2	1	0	2						

Edge Histogram for image 1099:

2461	2945	2209	1635	1273	1037	774	653	543	477	384	304	276	217
201	150	137	125	102	87	67	66	46	45	41	23	23	17
17	19	8	3	8	3	6	2						

Edge Histogram for image 1100:

3183	3980	2436	1691	1286	896	648	481	386	295	258	196	131	139
69	69	40	34	41	23	14	17	11	9	8	9	2	7
8	7	3	2	1	1	2	1						

Edge Histogram for image 1101:

1297	2896	3364	2818	2191	1265	830	536	325	216	150	92	74	44
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27	27	22	12	10	20	13	20	15	15	19	19	7	11
5	6	7	10	10	7	1	3]						

Edge Histogram for image 1102:

[1760	3051	3081	2486	1728	1191	744	451	345	262	191	160	137	106
105	68	62	68	45	47	46	27	36	29	27	22	18	17
13	13	17	24	5	1	0	1]						

Edge Histogram for image 1103:

[1823	3382	3141	2234	1603	1093	695	473	385	297	219	160	108	113
94	72	55	63	44	42	41	36	38	48	30	23	18	15
10	13	6	6	2	0	1	1]						

Edge Histogram for image 1104:

[998	1905	2116	1905	1722	1578	1211	934	803	646	513	374	299	231
206	190	115	130	96	75	74	60	41	33	25	32	16	14
14	7	3	1	7	2	4	4]						

Edge Histogram for image 1105:

[1383	2984	3077	2551	1885	1262	849	659	426	295	227	176	125	103
62	47	52	41	34	20	22	16	12	15	10	13	8	7
6	3	3	5	3	1	1	1]						

Edge Histogram for image 1106:

[1689	3108	2767	2073	1519	1203	944	714	573	421	310	247	203	153
118	86	65	46	27	27	26	13	15	10	4	7	3	3
5	0	2	1	0	0	1	1]						

Edge Histogram for image 1107:

[684	1660	2006	2086	1936	1653	1451	1116	875	738	513	454	312	220
167	127	94	75	56	48	29	19	15	14	7	5	6	6
4	2	1	2	2	0	0	1]						

Edge Histogram for image 1108:

[3144	3505	2840	2036	1323	872	639	464	371	270	217	146	108	86
74	35	43	34	28	34	18	27	19	10	9	6	6	6
2	3	2	1	2	3	0	1]						

Edge Histogram for image 1109:

[2096	2716	1902	1449	1152	1028	795	660	580	499	459	372	333	332
274	259	231	223	164	165	125	95	69	69	53	38	55	37
31	34	30	11	24	14	6	4]						

Edge Histogram for image 1110:

[2179	2918	2025	1506	1234	1029	902	675	593	527	416	350	313	282
253	219	215	189	146	84	83	48	33	33	31	24	16	16
8	9	13	4	5	4	0	2]						

Edge Histogram for image 1111:

[750	1493	1662	1551	1436	1341	1147	1004	809	725	631	555	486	443
354	348	273	246	205	149	134	128	100	94	65	56	54	47
34	19	11	6	8	7	7	6]						

Edge Histogram for image 1112:

[1456	2471	2330	2018	1474	1286	1075	861	633	507	439	378	314	286
195	157	113	80	78	49	42	25	20	22	16	10	5	10
14	6	3	4	3	3	0	1]						

Edge Histogram for image 1113:

```
[2186 3477 2845 2091 1436 1061 784 576 463 328 269 217 131 125
 91   66   51   46   31   19   23   15   14   11   9   4   5   4
  2     1     1     1     0     0     0     1]
```

Edge Histogram for image 1114:

```
[1299 2832 2917 2528 2041 1367 940 694 479 344 235 196 124 85
 58   44   48   31   30   18   16   13   13   8   5   4   5   1
  1     1     2     1     1     0     0     3]
```

Edge Histogram for image 1115:

```
[3328 3614 2915 2120 1426 875 619 379 246 207 130 112 84 59
 38   30   29   20   15   16   10   6   12   4   12   11   10   6
  8     7     5     4     7     6     6     8]
```

Edge Histogram for image 1116:

```
[ 969 2365 2908 2673 2223 1579 1111 766 534 360 208 160 117 104
 77   49   41   26   22   22   12   20   7   7   7   1   4   0
  2     5     0     2     1     0     1     1]
```

Edge Histogram for image 1117:

```
[4415 4290 2165 1222 834 642 524 356 297 242 218 165 157 153
 115   86   89   58   50   67   39   38   27   27   18   21   7   9
 12    16   10   11   2    0    1    1]
```

Edge Histogram for image 1118:

```
[5500 4260 2486 1425 858 487 309 224 125 117 88 75 50 41
 44   29   37   28   21   21   16   16   6   13   12   11   13   6
 12    3   12    7   12   13    4    3]
```

Edge Histogram for image 1119:

```
[1610 3251 2850 2086 1484 1129 775 609 488 335 328 253 227 168
 169   124  107   69   64   55   37   28   16   27   22   14   13   10
  7    11    9    4    1    2    0    2]
```

Edge Histogram for image 1120:

```
[1075 2367 2593 2341 1879 1437 1060 735 505 395 342 275 214 160
 159   140   99   75   83   76   60   54   45   32   30   28   25   25
 28    15   11    6    4    5    4    2]
```

Edge Histogram for image 1121:

```
[1322 2908 2898 2488 1872 1363 1021 767 499 343 239 177 120 97
 60    50    39    25    18    17    17    9    4    5    2    5    2    0
  1     5     1     2     2     2     2     2]
```

Edge Histogram for image 1122:

```
[3495 3214 2443 1766 1311 1093 732 606 418 294 230 172 141 93
 76    53    42    33    27    24    18    16    13    17    8    10    10    5
  6     2     4     3     4     0     4     1]
```

Edge Histogram for image 1123:

```
[1196 2176 2527 2306 1915 1520 1110 841 655 506 378 272 262 170
 143   109   81   54   47   34   22   16   8   15   8   4   1   0
  0     1     1     0     0     1     2     3]
```

Edge Histogram for image 1124:

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[1122	1994	2220	2179	1797	1611	1270	978	736	537	393	322	229	204
144	140	102	95	73	58	39	31	28	16	13	16	11	6
8	1	4	0	1	3	2	1]						

Edge Histogram for image 1125:

[2269	3073	2303	1638	1234	883	615	524	391	326	319	273	227	225
180	173	171	149	163	132	125	121	122	113	103	107	77	73
78	64	41	33	29	17	10	3]						

Edge Histogram for image 1126:

[3517	2792	2103	1693	1309	1069	846	631	490	362	291	239	226	197
133	90	92	53	59	53	37	31	18	8	11	2	4	8
5	4	3	4	2	1	0	1]						

Edge Histogram for image 1127:

[740	1881	2431	2422	2099	1581	1217	933	663	549	431	308	238	156
132	94	88	78	62	48	47	36	33	23	19	15	10	12
12	4	5	8	5	3	0	1]						

Edge Histogram for image 1128:

[939	2152	2577	2361	1927	1521	1074	829	615	437	369	307	219	204
173	136	99	73	61	66	51	36	29	28	26	14	16	17
8	10	2	1	3	2	1	1]						

Edge Histogram for image 1129:

[681	1700	2348	2444	2118	1705	1292	987	674	492	385	304	220	181
145	134	96	88	52	52	62	48	32	34	30	25	17	8
8	8	3	6	1	0	2	2]						

Edge Histogram for image 1130:

[4184	3197	2265	1539	1106	830	646	498	413	345	289	259	153	129
102	90	69	76	49	29	34	18	18	5	4	8	4	7
1	1	5	6	2	0	1	2]						

Edge Histogram for image 1131:

[822	1857	2012	1884	1618	1390	1188	956	762	615	548	444	335	279
245	209	176	169	140	122	108	79	77	75	45	47	41	25
24	23	22	21	11	10	3	2]						

Edge Histogram for image 1132:

[4049	3024	2136	1584	1182	802	647	527	382	347	259	237	200	156
138	127	107	94	79	72	50	53	28	23	18	14	16	6
3	5	2	1	4	3	5	4]						

Edge Histogram for image 1133:

[2083	2617	2236	1919	1529	1249	985	752	615	505	398	298	237	174
133	109	84	79	74	56	40	26	26	21	24	21	18	18
16	4	12	6	6	8	4	2]						

Edge Histogram for image 1134:

[2044	3124	2615	1950	1375	1049	842	618	470	396	351	272	225	216
176	150	114	88	70	62	39	42	22	23	14	9	14	3
2	2	2	0	1	1	1	2]						

Edge Histogram for image 1135:

[936	1947	2075	1905	1605	1449	1134	910	774	597	460	388	350	278
254	192	195	140	127	97	89	85	78	65	57	43	34	27

23	20	14	16	13	3	1	3]
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Edge Histogram for image 1136:

2115	3241	2693	1972	1339	976	764	544	448	311	282	239	195	172
132	102	110	90	78	67	75	55	61	53	48	38	33	36
22	22	21	18	12	10	6	4]						

Edge Histogram for image 1137:

2362	2945	2335	1971	1482	1237	966	694	546	390	297	233	183	134
122	73	74	54	33	29	26	21	22	28	24	24	17	13
12	9	7	8	4	4	3	2]						

Edge Histogram for image 1138:

955	2303	2720	2419	1940	1462	1112	761	569	426	315	242	196	138
128	98	84	65	66	64	45	45	56	41	34	23	13	13
15	9	7	8	4	3	2	3]						

Edge Histogram for image 1139:

2803	3155	2278	1798	1340	989	803	618	505	409	322	254	189	139
119	91	89	69	44	44	40	36	32	32	38	28	33	30
15	10	6	5	9	1	7	4]						

Edge Histogram for image 1140:

812	2005	2291	2265	1802	1458	1186	871	715	608	416	347	277	231
199	144	126	117	85	77	58	44	41	32	30	30	26	20
21	11	14	8	7	7	2	1]						

Edge Histogram for image 1141:

1604	2788	2567	2109	1727	1360	1042	743	595	486	311	223	188	150
120	75	80	50	36	34	24	19	6	4	15	5	2	2
4	1	1	1	2	6	1	3]						

Edge Histogram for image 1142:

633	1469	1754	1823	1731	1540	1354	1118	885	746	623	518	446	366
297	208	225	157	123	85	88	53	35	18	18	13	17	10
8	8	4	3	2	4	1	1]						

Edge Histogram for image 1143:

1954	3163	2624	1948	1283	921	693	582	443	382	324	276	261	220
181	151	160	114	124	115	82	72	75	49	44	35	20	33
16	15	10	7	1	2	2	2]						

Edge Histogram for image 1144:

2736	3282	2327	1839	1335	1049	789	544	426	338	245	207	166	147
134	99	112	80	80	87	66	50	33	47	42	39	14	14
13	13	9	11	1	6	2	2]						

Edge Histogram for image 1145:

1771	3076	2688	2093	1481	1156	814	594	449	378	326	261	222	213
138	131	109	87	78	53	46	45	32	43	25	32	18	7
5	5	2	1	1	0	1	3]						

Edge Histogram for image 1146:

749	1608	1913	2019	1846	1703	1296	962	848	668	541	468	391	293
216	161	134	111	108	70	62	42	31	40	21	26	17	10
9	8	4	3	2	2	1	1]						

Edge Histogram for image 1147:

3871	3895	2514	1499	1096	784	553	462	322	263	189	151	143	112
94	94	51	56	46	40	32	24	23	11	5	14	8	5
8	4	3	2	4	2	1	3						

Edge Histogram for image 1148:

1625	3215	3125	2293	1573	1001	834	560	448	326	283	240	174	161
117	85	58	45	53	46	30	18	17	8	10	7	6	6
2	3	6	3	1	3	1	1	1					

Edge Histogram for image 1149:

1834	2567	2347	2116	1709	1317	1052	781	639	436	339	262	178	172
126	96	94	59	62	41	31	22	23	10	17	11	10	8
8	7	2	2	3	1	1	1	1					

Edge Histogram for image 1150:

1696	3157	2915	2253	1663	1190	788	592	471	407	271	205	147	129
101	69	62	57	39	26	22	20	17	19	6	5	6	9
5	8	9	5	11	0	1	3	1					

Edge Histogram for image 1151:

3308	2609	2153	1732	1405	1052	874	661	581	403	343	300	266	216
119	87	50	38	33	27	28	14	11	6	15	11	9	10
6	3	3	2	2	2	3	2	1					

Edge Histogram for image 1152:

1733	2871	2558	2052	1490	1072	858	640	559	421	380	280	246	191
186	171	134	99	91	75	52	47	39	30	23	22	22	14
4	11	4	3	3	2	0	1	1					

Edge Histogram for image 1153:

4173	3781	2820	1871	1094	688	512	360	266	192	155	104	85	51
38	29	18	21	17	11	8	9	9	10	6	5	8	4
8	4	7	5	5	4	3	3	3					

Edge Histogram for image 1154:

2067	2864	2726	2133	1550	1049	780	625	465	356	321	268	187	149
137	136	96	76	56	59	43	49	43	34	25	18	17	12
9	8	5	7	4	2	4	4	4					

Edge Histogram for image 1155:

2357	3427	2698	1894	1326	985	805	589	472	359	285	239	190	143
140	112	69	56	52	25	36	22	24	14	13	14	11	7
3	4	3	4	1	1	0	4	4					

Edge Histogram for image 1156:

2174	3268	2382	1737	1291	978	820	647	555	411	371	288	262	194
167	132	130	86	101	55	57	54	41	33	32	25	16	16
15	9	21	5	4	3	1	3	1					

Edge Histogram for image 1157:

2687	2312	1715	1410	1145	1025	919	857	743	639	552	472	329	316
260	223	150	110	91	62	65	43	54	37	41	30	23	16
19	11	11	4	4	5	2	2	2					

Edge Histogram for image 1158:

1305	2430	2308	1962	1611	1266	1090	890	701	550	500	389	269	235
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192	129	125	110	78	44	40	39	26	16	21	13	9	13
6	2	3	4	1	3	2	2]						

Edge Histogram for image 1159:

[908	1821	2024	1851	1680	1510	1314	1042	872	692	538	392	369	299
224	187	141	110	97	60	63	36	33	34	18	15	11	8
4	8	4	3	1	4	4	7]						

Edge Histogram for image 1160:

[1746	3279	3292	2562	1697	1234	829	504	368	225	157	121	68	61
49	32	28	28	21	17	13	16	4	4	7	6	4	4
1	2	1	2	1	0	0	1]						

Edge Histogram for image 1161:

[3837	3724	2418	1550	1069	789	607	459	336	278	247	200	188	140
114	91	70	55	31	43	32	19	21	11	11	11	6	8
4	1	3	1	1	7	1	1]						

Edge Histogram for image 1162:

[3817	3590	2608	1791	1197	744	514	361	323	236	190	152	151	97
78	107	85	61	41	41	30	30	18	18	22	19	7	8
7	16	6	3	8	2	2	4]						

Edge Histogram for image 1163:

[2566	2463	2188	1946	1639	1288	992	787	585	454	354	244	190	137
111	105	81	41	39	34	37	25	16	10	11	3	4	6
12	5	3	4	2	0	1	1]						

Edge Histogram for image 1164:

[1119	2515	2745	2601	1942	1392	995	772	543	386	317	224	175	144
111	81	80	49	45	32	31	14	12	23	7	8	3	3
5	6	1	1	0	0	1	1]						

Edge Histogram for image 1165:

[1175	2655	2859	2481	1866	1377	1048	691	514	375	308	217	167	129
102	72	66	52	46	33	19	22	23	23	12	12	12	5
2	6	9	3	1	0	0	2]						

Edge Histogram for image 1166:

[992	2292	2621	2484	2024	1585	1198	866	637	448	331	236	170	155
110	63	57	32	20	13	23	9	9	4	2	1	0	0
0	0	0	0	0	1	0	1]						

Edge Histogram for image 1167:

[661	1618	2232	2249	2010	1705	1325	1027	794	638	454	382	280	190
171	121	98	87	61	66	50	30	29	25	13	14	17	10
7	6	3	2	3	1	3	2	2]					

Edge Histogram for image 1168:

[799	1732	2117	2104	1773	1508	1260	975	815	673	519	399	293	265
236	175	154	120	100	86	64	58	32	34	21	19	20	13
8	2	1	3	2	0	2	2]						

Edge Histogram for image 1169:

[759	1542	1994	2040	1817	1621	1319	1090	882	653	544	432	342	284
200	174	159	114	82	61	57	47	43	27	27	19	19	6
11	2	6	3	4	3	0	1]						

Edge Histogram for image 1170:

[1574	3088	2962	2418	1898	1314	967	610	430	275	188	151	125	75
78	51	46	35	20	11	13	11	3	4	6	7	8	2
2	3	4	2	1	0	1	1						

Edge Histogram for image 1171:

[1586	3251	3093	2398	1634	1164	827	574	447	315	239	193	150	113
72	65	48	39	25	31	22	13	14	9	10	8	8	8
2	2	4	5	6	3	2	4						

Edge Histogram for image 1172:

[1745	3442	3209	2425	1649	1182	839	563	362	239	179	124	101	79
56	44	39	33	14	12	15	6	6	5	4	2	1	1
2	3	0	1	1	0	0	1						

Edge Histogram for image 1173:

[1126	2309	2540	2198	1682	1291	1021	853	669	536	406	365	290	239
175	152	112	90	78	54	42	29	26	27	16	13	12	5
4	5	7	6	3	2	0	1						

Edge Histogram for image 1174:

[2017	3686	3118	1925	1276	865	569	463	382	353	278	241	186	180
132	101	102	94	85	65	50	40	26	39	44	22	16	9
6	3	3	3	1	3	0	1						

Edge Histogram for image 1175:

[5007	3215	2404	1693	1143	761	511	348	223	159	161	128	89	88
66	47	48	28	19	27	26	15	8	18	16	11	14	16
14	6	10	14	16	9	14	12						

Edge Histogram for image 1176:

[2142	3800	3313	2261	1495	988	570	449	319	232	175	137	119	88
76	53	36	21	19	11	11	19	12	8	8	6	2	3
2	0	1	1	1	4	0	2						

Edge Histogram for image 1177:

[4475	2674	2020	1569	1189	826	619	548	437	331	263	240	193	177
157	131	90	81	79	49	49	42	32	23	18	16	12	9
9	6	3	4	5	2	3	3						

Edge Histogram for image 1178:

[3958	3633	2203	1354	1002	761	572	483	365	323	257	215	205	156
144	118	98	85	83	64	61	41	39	39	31	24	25	11
13	7	0	1	1	4	5	3						

Edge Histogram for image 1179:

[2849	3168	2491	1893	1356	1050	763	544	387	295	234	155	141	90
98	81	97	82	64	68	52	65	50	42	56	25	35	30
24	23	18	13	12	20	9	4						

Edge Histogram for image 1180:

[2483	3719	2932	1906	1362	906	733	531	383	295	230	157	135	107
90	82	65	40	29	41	44	29	22	18	13	13	4	3
4	0	0	2	0	1	3	2						

Edge Histogram for image 1181:

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```
[ 515 1359 1795 1989 1979 1763 1484 1162 970 764 597 466 352 285
  204 159 103 93 70 50 48 34 25 30 17 18 14 8
   6   9   3   2   1   4   2   4 ]
```

Edge Histogram for image 1182:

```
[2024 2227 2090 1811 1593 1369 1109 912 712 560 405 367 278 201
  176 111 107 82 50 49 34 29 26 10 10 5 9 7
   7   0   4   3   2   1   1   3 ]
```

Edge Histogram for image 1183:

```
[ 964 1929 2122 2108 1933 1641 1319 1014 743 582 460 329 242 185
  151 104 68 85 56 45 33 39 33 24 25 30 20 38
  35 18 6 2 0 0 0 1 ]
```

Edge Histogram for image 1184:

```
[2526 3233 2481 1831 1281 945 733 538 474 415 380 284 205 181
  157 127 93 92 77 56 48 39 25 27 19 22 13 20
  11 12 5 10 11 6 4 3 ]
```

Edge Histogram for image 1185:

```
[3600 1942 1776 1581 1399 1142 953 729 610 472 369 276 225 187
  170 119 93 100 85 78 66 73 51 48 34 38 24 26
  23 23 16 22 14 6 8 6 ]
```

Edge Histogram for image 1186:

```
[1857 2921 2306 1834 1525 1212 920 738 594 505 390 334 258 193
  156 143 92 75 51 39 49 20 24 19 15 21 16 14
  23 4 13 7 4 6 4 2 ]
```

Edge Histogram for image 1187:

```
[2843 3790 2588 1681 1154 842 668 515 367 289 243 196 155 150
  142 106 99 89 64 73 50 53 37 30 23 23 20 16
  22 12 9 10 13 4 5 3 ]
```

Edge Histogram for image 1188:

```
[1963 2648 2265 1849 1538 1322 1064 863 664 493 386 285 253 192
  135 108 97 57 68 27 30 21 14 12 6 6 5 1
  2 1 2 4 1 1 0 1 ]
```

Edge Histogram for image 1189:

```
[2095 2133 2061 1977 1698 1450 1130 851 743 542 401 291 216 170
  138 107 98 62 61 39 32 20 19 14 7 8 6 5
  5 2 0 1 1 0 0 1 ]
```

Edge Histogram for image 1190:

```
[1888 3137 2890 2258 1601 1072 754 583 431 286 252 196 142 123
  126 89 82 61 58 46 39 39 35 26 21 26 27 16
  13 28 15 9 3 5 1 6 ]
```

Edge Histogram for image 1191:

```
[1362 2375 2457 2143 1719 1267 905 712 584 441 384 343 254 230
  198 175 160 110 107 78 72 68 51 39 35 20 22 15
  14 13 9 5 4 5 3 5 ]
```

Edge Histogram for image 1192:

```
[4364 3677 2489 1724 1075 694 534 366 280 228 193 131 126 91
  86 58 71 55 55 34 18 14 12 1 2 0 1 1 ]
```

```
1 1 1 0 0 0 0 1]
```

Edge Histogram for image 1193:

```
[1230 2157 2388 2151 1797 1420 1083 856 640 527 467 333 293 239
 187 117 95 79 66 43 49 32 34 22 17 13 11 8
   9   4   9   1   4   1   1   1]
```

Edge Histogram for image 1194:

```
[3562 3756 2327 1511 1082 759 614 452 396 337 243 203 181 174
 130 119 86 82 73 67 56 34 33 17 14 25 9 14
   7   6   4   3   1   3   2   2]
```

Edge Histogram for image 1195:

```
[2614 3602 3035 2245 1541 1050 661 474 311 222 140 125 90 50
 43 24 30 23 10 14 15 5 8 6 7 5 5 7
   4   8   2   1   3   1   1   2]
```

Edge Histogram for image 1196:

```
[1899 3319 3076 2460 1650 1149 769 470 387 297 209 157 133 108
 77 65 40 28 22 16 14 10 5 2 4 3 1 1
   2   4   2   2   1   1   0   1]
```

Edge Histogram for image 1197:

```
[1493 3395 3508 2695 1691 1102 665 476 342 260 188 127 113 76
 53 36 34 26 19 27 13 13 5 6 6 3 1 3
   1   1   0   2   1   1   1   1]
```

Edge Histogram for image 1198:

```
[1395 2980 2965 2376 1892 1393 958 665 474 341 229 190 118 84
 50 42 40 36 16 29 18 17 12 10 12 4 5 13
   2   3   1   7   1   2   0   4]
```

Edge Histogram for image 1199:

```
[ 943 1933 2158 1989 1759 1518 1307 1047 799 611 516 391 283 210
 172 149 113 104 73 58 50 44 32 26 31 18 7 10
   7   2   9   4   7   3   0   1]
```

Edge Histogram for image 1200:

```
[ 958 2381 2825 2637 2113 1636 1134 790 594 416 245 178 132 83
 61 38 40 27 15 13 11 4 8 8 4 5 9 5
   3   5   1   1   0   1   2   1]
```

Edge Histogram for image 1201:

```
[1000 2147 2384 2046 1691 1257 1055 793 676 595 450 425 309 280
 215 187 193 121 111 92 76 62 44 54 36 25 19 21
   6   8   3   2   0   0   0   1]
```

Edge Histogram for image 1202:

```
[1611 2575 2718 2326 1838 1365 994 731 546 389 288 203 152 112
 96 77 57 43 42 33 21 25 21 25 16 12 9 6
   4   7   4   2   5   5   12 14]
```

Edge Histogram for image 1203:

```
[ 687 1527 1845 1976 1864 1659 1398 1183 937 703 568 413 342 273
 195 149 122 120 68 66 51 46 37 27 28 12 17 11
   11  8   8   9   9   5   4   6]
```

Edge Histogram for image 1204:

```
[ 968 1915 2127 2043 1768 1456 1259 1029 835 656 516 396 323 246
  182 138 119 80 67 53 40 33 27 22 11 17 10 8
   10    5    5    6    6    4    3    1]
```

Edge Histogram for image 1205:

```
[1801 2466 2315 2102 1632 1303 1049 813 621 517 462 356 278 153
 113  92  75  46  52  28  25  17  20  15  5   7   5   1
   2    3    2    3    1    2    1    1]
```

Edge Histogram for image 1206:

```
[2412 3376 2574 1742 1243 839 704 558 442 384 321 254 217 210
 189 149 139 113 113 80 82 51 35 41 24 22 17 10
   11    9    9    3    4    2    3    2]
```

Edge Histogram for image 1207:

```
[1084 2019 2372 2174 1908 1487 1115 905 662 568 432 314 268 220
 158 139 128 93 71 71 53 38 27 30 14 12 5   2
   4    2    2    3    1    2    0    1]
```

Edge Histogram for image 1208:

```
[ 999 2334 2617 2338 2008 1454 1176 902 648 492 387 278 210 154
  98   60   45   49   39   21   16   11   9   8   6   8   1   5
   2    1    5    0    1    0    0    2]
```

Edge Histogram for image 1209:

```
[1680 3259 3079 2308 1765 1186 796 566 399 327 243 158 128 111
  81   56   39   24   39   26   22   11   14   9   11   14   9   6
   4    3    5    1    3    0    1    1]
```

Edge Histogram for image 1210:

```
[3317 4042 2592 1862 1181 801 579 442 299 220 194 173 125 105
  66   54   48   52   37   25   31   33   27   18   19   9   10   6
   2    1    4    1    1    2    4    2]
```

Edge Histogram for image 1211:

```
[1722 2814 2193 1577 1224 892 841 735 622 573 464 454 392 297
  276 235 219 160 134 110 86 85 69 47 36 35 27 25
   10   6    7    4    2    7    1    3]
```

Edge Histogram for image 1212:

```
[1316 2365 2579 2258 1690 1286 1022 761 624 453 323 291 216 200
  173 136 94 87 80 74 59 52 38 33 35 32 24 25
   17   18   11   4   3   1   2   2]
```

Edge Histogram for image 1213:

```
[3691 3172 2327 1541 1128 853 697 557 454 349 288 230 196 159
  122 99 82 68 62 56 41 37 29 27 30 12 8 17
   9   12  16   6   2   3   3   1]
```

Edge Histogram for image 1214:

```
[4136 3729 2413 1746 1097 828 518 408 340 225 209 140 127 88
  68   68   45   47   26   22   28   18   15   10   8   3   4   4
   5    4    0    2    1    0    1    1]
```

Edge Histogram for image 1215:

```
[6537 2901 1706 1270 883 638 516 385 324 240 155 118 101 108]
```

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87 2	61 2	58 2	52 2	45 0	35 0	33 0	26 1]	27	22	20	12	10	5
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Edge Histogram for image 1216:

1177 217 6	2325 180 3	2193 135 5	1775 120 3	1568 82 2	1298 59 3	1078 66 1	934 55 2]	727 44 28	625 28 28	539 28 26	451 16 16	363 16 9	241 9
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Edge Histogram for image 1217:

3683 134 9	3846 88 6	2183 102 2	1400 76 0	970 48 1	778 39 2	634 42 0	559 43 2]	457 34 16	316 16 9	308 9 7	235 13 13	184 10 10	148 10
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Edge Histogram for image 1218:

3173 88 14	3794 84 9	2934 77 9	1685 63 9	1098 61 12	775 57 5	558 35 2	426 21 3]	330 37 3	279 16 23	231 23 14	182 14 7	150 7 10	113 10
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Edge Histogram for image 1219:

2067 171 19	3089 136 7	2416 124 8	1688 93 4	1374 88 5	1111 77 2	858 62 1	648 51 1]	553 54 1]	414 36 27	374 27 27	281 27 21	260 21 15	222 15
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Edge Histogram for image 1220:

3956 86 4	3845 85 7	2396 91 5	1722 68 0	1119 57 2	785 52 2	542 24 4	388 12 1]	305 16 1]	236 20 10	167 10 7	146 7 5	117 5 6	96 6
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Edge Histogram for image 1221:

2903 118 5	3779 100 5	2754 76 0	2002 72 2	1316 35 1	812 31 1	559 24 2	432 27 2]	326 21 2]	256 22 19	208 22 21	166 19 17	142 21 11	117 11
------------------	------------------	-----------------	-----------------	-----------------	----------------	----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------

Edge Histogram for image 1222:

2139 173 11	2972 165 7	2338 129 3	1769 109 8	1352 80 3	1038 73 3	866 58 3	707 49 4]	552 33 4]	462 27 23	366 23 36	319 36 17	232 36 12	246 12
-------------------	------------------	------------------	------------------	-----------------	-----------------	----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------

Edge Histogram for image 1223:

1446 243 10	2037 184 9	2134 156 4	1840 131 4	1529 106 2	1276 75 3	1072 43 2	861 40 2]	710 29 2]	621 34 23	570 23 24	432 24 21	397 24 14	300 14
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Edge Histogram for image 1224:

3058 170 20	3147 124 9	2551 108 11	1891 89 7	1274 96 5	824 76 6	602 91 4	479 68 4]	354 55 40	294 40 41	241 40 41	197 32 32	185 23 23	190 18
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Edge Histogram for image 1225:

2981 95 4	3707 72 5	3049 58 1	2059 49 2	1219 40 5	803 35 0	531 33 2	407 25 4]	332 15 4]	200 14 15	164 15 15	168 7 7	144 7 7	123 9
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Edge Histogram for image 1226:

3731 111 8	3915 121 6	2298 95 6	1390 81 6	997 54 6	770 57 3	551 40 2	489 38 3]	390 40 3]	319 36 29	241 36 29	187 23 23	183 14 14	137 7
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Edge Histogram for image 1227:

6444	3499	1609	902	647	519	434	343	331	262	173	175	127	108
99	77	70	63	48	59	56	50	56	48	44	25	14	24
16	13	18	13	8	6	1	3						

Edge Histogram for image 1228:

8474	2248	1344	867	608	478	382	287	238	195	142	115	118	97
87	88	71	65	54	45	45	34	47	38	23	22	18	22
17	21	16	22	24	21	7	4						

Edge Histogram for image 1229:

3395	3596	2570	1815	1253	839	544	379	270	210	188	171	153	130
104	105	75	93	82	67	57	54	47	39	44	28	19	10
5	8	7	7	3	8	7	2						

Edge Histogram for image 1230:

1027	2060	2097	1933	1764	1507	1137	961	770	590	467	443	356	243
232	170	149	125	78	71	53	40	35	20	12	16	4	10
2	4	3	1	3	0	0	1						

Edge Histogram for image 1231:

431	1164	1668	1958	1883	1794	1536	1235	970	829	578	510	390	298
238	164	156	116	73	71	64	54	38	31	28	27	20	10
15	10	10	8	1	4	1	1						

Edge Histogram for image 1232:

2520	2801	2252	1869	1440	1092	808	610	457	331	294	254	205	183
159	149	159	111	118	88	87	80	75	45	37	43	29	18
12	20	10	8	5	4	5	6						

Edge Histogram for image 1233:

1486	3019	2926	2466	1726	1219	903	637	468	329	238	176	144	111
83	73	63	49	41	27	43	27	20	24	16	17	12	14
11	3	4	1	5	1	0	2						

Edge Histogram for image 1234:

8610	2065	1117	774	638	535	456	322	258	205	169	151	110	105
90	86	90	68	67	64	59	66	60	45	40	40	25	18
22	10	6	5	2	2	1	3						

Edge Histogram for image 1235:

5118	3831	1902	1080	708	595	440	363	301	252	250	214	194	147
147	127	131	96	64	98	58	42	47	45	25	23	22	16
17	11	7	5	3	1	3	1						

Edge Histogram for image 1236:

3539	2996	2369	1847	1270	850	614	480	339	286	215	181	133	143
110	121	92	98	77	83	63	58	67	65	53	41	39	41
22	25	24	20	10	7	3	3						

Edge Histogram for image 1237:

7176	2987	1299	831	653	484	399	309	265	228	176	163	153	149
133	97	96	91	94	97	84	82	77	66	61	42	19	19
14	11	8	6	8	3	2	2						

Edge Histogram for image 1238:

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[1120	2164	2255	2101	1694	1464	1172	931	738	556	471	364	286	235
167	138	123	81	79	60	34	38	36	17	17	13	9	3
7	3	4	2	0	0	1	1						

Edge Histogram for image 1239:

[3838	2959	2188	1583	1177	897	722	501	411	321	310	245	206	173
125	128	101	78	77	78	53	38	36	26	17	14	20	26
10	3	6	3	3	3	3	5						

Edge Histogram for image 1240:

[1830	3246	2825	2033	1398	971	748	588	459	401	294	275	228	203
165	145	110	105	85	46	49	42	33	27	14	13	10	7
8	8	7	1	4	3	2	1						

Edge Histogram for image 1241:

[1796	3647	3390	2352	1558	1015	754	520	359	243	163	138	90	67
44	43	32	30	19	9	19	18	11	12	7	12	4	7
7	7	4	4	1	1	0	1						

Edge Histogram for image 1242:

[3038	3781	2475	1661	1154	774	572	455	395	285	233	222	183	167
138	133	107	103	65	74	62	48	45	45	35	27	18	30
18	12	11	5	5	5	1	2						

Edge Histogram for image 1243:

[1233	2305	2100	1558	1158	918	668	559	486	443	408	406	369	328
314	302	319	289	289	297	262	253	236	234	222	157	96	62
40	34	9	8	6	2	7	7						

Edge Histogram for image 1244:

[3627	4017	3092	1773	916	582	398	323	227	222	182	149	143	114
124	108	101	66	47	34	19	23	18	22	10	10	9	6
3	7	3	3	1	1	2	2						

Edge Histogram for image 1245:

[4222	3112	1854	1310	878	722	627	549	503	431	348	324	261	219
156	149	114	104	91	71	61	58	39	36	29	13	25	22
14	17	8	6	4	2	3	2						

Edge Histogram for image 1246:

[4491	3572	2192	1594	1148	771	587	385	301	255	173	129	128	120
88	98	71	47	57	40	29	24	23	17	21	7	1	4
1	5	1	2	0	0	1	1						

Edge Histogram for image 1247:

[1894	2600	2089	2006	1580	1278	988	774	613	500	352	315	230	188
141	111	99	80	83	76	61	50	43	37	40	29	20	29
22	18	6	8	7	10	4	3						

Edge Histogram for image 1248:

[2443	2595	2377	1871	1441	1051	767	546	464	378	304	277	226	211
159	138	158	112	103	111	84	84	88	60	73	65	43	35
45	24	17	9	14	3	4	4						

Edge Histogram for image 1249:

[1811	2729	2588	2163	1657	1274	884	635	476	359	309	241	185	167
154	105	104	81	69	61	51	39	46	30	26	32	26	21

14	9	12	7	7	5	6	1]
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Edge Histogram for image 1250:

[1951	3190	2470	1924	1399	958	707	559	466	365	318	278	253	199
195	169	166	148	116	105	92	70	51	56	48	29	30	30
19	11	7	1	3	0	0	1]						

Edge Histogram for image 1251:

[1877	3373	3109	2488	1614	1068	665	441	296	238	180	157	151	112
86	70	61	56	57	43	40	30	30	18	28	11	12	13
17	7	7	8	3	4	6	8]						

Edge Histogram for image 1252:

[2026	3630	2914	2147	1347	1010	642	501	339	276	217	182	164	141
136	103	105	71	89	69	46	51	41	40	22	24	18	9
6	6	3	2	5	1	0	1]						

Edge Histogram for image 1253:

[3783	3958	2740	1777	1188	767	488	375	282	212	160	123	110	95
66	62	37	33	20	23	21	11	13	8	10	5	1	5
2	1	1	0	2	1	2	2]						

Edge Histogram for image 1254:

[2511	3060	2293	1675	1260	1092	857	714	566	476	340	290	235	199
143	136	99	85	64	48	44	27	26	29	27	19	17	9
10	7	6	7	5	5	1	2]						

Edge Histogram for image 1255:

[4487	4140	2281	1394	977	720	507	396	279	196	165	131	95	60
76	48	52	36	35	43	39	30	21	25	33	29	20	12
15	13	6	13	6	2	1	1]						

Edge Histogram for image 1256:

[2291	3255	2699	2000	1533	1017	748	584	427	309	227	202	184	111
106	87	104	85	62	49	48	53	32	35	25	22	22	13
14	13	4	9	5	3	4	2]						

Edge Histogram for image 1257:

[1892	2325	1792	1450	1263	1156	1102	904	776	660	536	487	365	306
256	201	168	133	121	98	80	63	47	35	29	19	23	23
19	11	5	8	14	7	3	7]						

Edge Histogram for image 1258:

[3584	2285	2190	1882	1473	1169	863	616	488	384	310	216	191	154
125	104	70	65	34	30	22	20	18	18	13	18	12	11
7	4	4	1	0	1	0	2]						

Edge Histogram for image 1259:

[4120	3094	2288	1676	1244	916	685	547	391	299	249	156	143	121
129	82	59	54	37	25	10	16	9	6	3	4	3	1
4	3	1	2	5	1	0	1]						

Edge Histogram for image 1260:

[2613	2518	2228	1648	1187	976	791	683	556	494	391	376	294	258
227	197	165	151	114	98	83	69	66	44	36	32	32	14
12	8	3	3	6	5	3	3]						

Edge Histogram for image 1261:

```
[ 766 1750 2267 2256 2036 1793 1319 1012 734 574 387 345 224 188
  140 104  92  90  73  43  43  31  23  16  18  10  15  7
    7   6   4   2   3   2   2   2 ]
```

Edge Histogram for image 1262:

```
[ 807 1668 2122 2157 1911 1561 1326 955 789 642 456 394 296 225
  181 152 136 109  90  57  61  69  54  40  24  31  19   6
   11   5   8   10   2   7   2   1 ]
```

Edge Histogram for image 1263:

```
[1300 2591 2867 2261 1710 1345 1040 740 543 438 307 252 183 171
 137 117  88  76  45  40  18  27  22  17  11   7  10   5
   5   3   3   4   0   0   0   1 ]
```

Edge Histogram for image 1264:

```
[2930 3446 2321 1834 1318 1041 733 551 440 314 246 223 188 150
 111  91  82  55  49  47  28  35  24  25  22  15  15   3
   8   7  12   7   4   6   1   2 ]
```

Edge Histogram for image 1265:

```
[4053 3573 2197 1458 1004 731 551 476 399 333 291 194 179 160
 121  94  94  88  66  41  41  43  55  28  28  30   15   8
   11   5   7   5   1   1   2   1 ]
```

Edge Histogram for image 1266:

```
[7324 3662 1705 922 616 418 339 247 206 145 110 93 83 70
  82   60   50   50   40   36   31   19   20   16   14   4   4   9
   2   2   1   3   0   0   0   1 ]
```

Edge Histogram for image 1267:

```
[2750 3327 2335 1656 1297 990 792 647 492 394 311 265 215 187
 137  97 101  72  81  46  43  28  21  17  18  11  16   9
   7   10   1   4   4   1   0   2 ]
```

Edge Histogram for image 1268:

```
[2131 3549 2815 1970 1365 1031 740 584 425 395 245 230 194 150
 126   90   75   49   51   27   35   34   17   14   11   6   6   3
   4   3   3   0   3   1   0   2 ]
```

Edge Histogram for image 1269:

```
[2906 3875 2684 1695 1162 878 652 534 420 361 262 213 163 125
 109   77   57   41   42   27   22   16   11   11   6   8   5   2
   3   6   1   5   0   2   1   2 ]
```

Edge Histogram for image 1270:

```
[4356 2924 2212 1770 1242 932 630 448 330 218 201 148 135 114
 103 104  74  75  57  58  47  41  33  32  22  18  10   8
   7   10   8   4   5   4   1   3 ]
```

Edge Histogram for image 1271:

```
[6356 2176 1608 1172 917 709 635 452 364 320 253 202 147 120
  95   87   98   78   82   74   54   56   34   55   50   37   43   28
   28   18   15   9   6   2   3   1 ]
```

Edge Histogram for image 1272:

```
[2191 2787 2430 2216 1730 1325 946 700 513 399 259 216 160 109
```

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78	87	47	27	27	20	22	16	14	12	7	9	6	5
3	4	5	2	6	3	2	1]						

Edge Histogram for image 1273:

[2812	4130	3057	1847	1232	854	570	437	285	238	190	147	123	76
71	43	46	35	29	23	19	16	10	16	8	5	7	7
5	8	6	10	4	7	8	3]						

Edge Histogram for image 1274:

[2250	2317	1707	1384	1301	1153	970	853	742	617	492	430	388	314
259	219	171	131	105	115	90	47	53	47	49	32	29	18
14	15	32	12	14	7	4	3]						

Edge Histogram for image 1275:

[3110	3691	2557	1586	1083	868	640	551	424	313	287	237	159	125
119	103	77	55	49	50	46	43	31	23	28	18	19	18
14	12	8	11	17	9	2	1]						

Edge Histogram for image 1276:

[2562	2598	2342	1870	1478	1198	867	677	539	407	349	250	196	141
130	120	90	65	76	64	37	42	41	32	42	28	36	29
20	12	14	10	9	7	3	3]						

Edge Histogram for image 1277:

[4842	3609	2000	1359	1038	829	531	427	327	222	169	177	131	122
91	71	79	58	63	39	43	30	28	15	25	23	11	6
5	3	1	3	4	1	0	0	2]					

Edge Histogram for image 1278:

[3315	4188	3010	1890	1110	744	461	341	228	195	151	128	143	93
94	55	52	33	29	23	16	17	21	11	12	6	5	5
2	3	0	1	1	0	0	1]						

Edge Histogram for image 1279:

[2288	2529	1713	1357	1187	962	909	742	681	595	495	428	442	320
298	236	211	193	148	143	103	74	76	63	51	39	31	11
18	12	8	11	4	3	2	1]						

Edge Histogram for image 1280:

[1334	2803	2947	2458	1897	1293	912	664	424	308	236	161	138	118
100	86	62	68	44	52	46	39	41	36	27	14	9	11
14	11	9	6	6	6	3	1]						

Edge Histogram for image 1281:

[4822	2367	2038	1447	1100	829	651	521	442	359	274	244	173	158
153	126	102	100	80	61	61	40	44	38	29	30	23	22
14	7	9	5	7	6	0	2]						

Edge Histogram for image 1282:

[3227	2926	2419	1887	1287	940	682	613	413	331	274	223	198	199
176	116	97	89	66	44	38	33	17	25	23	9	9	6
3	4	4	1	1	1	1	2]						

Edge Histogram for image 1283:

[3919	3406	2053	1448	1050	807	643	535	434	337	278	215	223	172
127	137	109	96	70	73	43	46	34	38	31	18	7	6
12	5	4	5	0	1	1	1	1]					

Edge Histogram for image 1284:

```
[2321 3672 3187 2196 1518 985 658 476 350 253 193 151 116 80
 52   44   36   22   13   12   6   6   10   5   3   5   3   2
  1    3    1    0    1    0   1   2]
```

Edge Histogram for image 1285:

```
[1891 2643 2695 2314 1693 1339 958 676 529 384 255 207 174 108
 101   66   66   50   38   51   38   21   17   16   13   13   6   9
  7    4    0    1    0    0   0   1]
```

Edge Histogram for image 1286:

```
[2707 3906 2884 1892 1171 778 583 360 330 228 197 164 159 139
 126   105   90   69   54   57   61   55   45   44   35   25   19   12
 14    15   14   15    8    9   8   6]
```

Edge Histogram for image 1287:

```
[2670 3455 2663 1724 1341 980 698 523 401 368 287 225 195 141
 111   83   72   61   59   43   48   35   24   30   26   21   16   15
 15    17    9   11    7    7   2   1]
```

Edge Histogram for image 1288:

```
[7971 2237 1053 756 664 604 440 391 293 247 207 159 146 123
 118   101   110  102  104   90   79   73   69   67   42   38   22   25
 15    17    6   10    3    0   1   1]
```

Edge Histogram for image 1289:

```
[4627 2271 1838 1488 1193 928 745 587 463 321 306 232 187 191
 133   121   104   91   89   85   74   66   57   48   43   19   18   18
 16    5    9    3    4    1   1   2]
```

Edge Histogram for image 1290:

```
[ 850 1920 2295 2270 1938 1545 1209 937 749 602 431 356 262 211
 156   150   93   105   66   35   52   40   22   25   14   16    7   5
  4    2    6    3    4    3    0   1]
```

Edge Histogram for image 1291:

```
[1598 2730 2539 2079 1671 1294 1010 701 504 395 330 255 236 165
 147   146   94   81   73   53   52   46   33   36   26   17   15   11
 12    13   10    1    2    3    3   3]
```

Edge Histogram for image 1292:

```
[1898 3064 2748 2001 1551 1078 760 610 460 370 327 298 236 175
 146   111   114   76   55   50   45   46   32   33   24   23   17    9
  6    3    5    4    4    2    1   2]
```

Edge Histogram for image 1293:

```
[ 956 1871 2082 1961 1719 1411 1100 896 771 690 510 443 383 264
 236   189   179   144   120   87   86   62   48   47   30   26   17   16
 12    5   10    6    3    1    1   2]
```

Edge Histogram for image 1294:

```
[1275 2412 2330 2173 1856 1424 1144 854 646 456 340 256 192 156
 126   109   89   84   78   48   60   57   26   45   26   30   25   18
 14    9    5    9    4    3    3   2]
```

Edge Histogram for image 1295:

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[3297	3767	3126	1959	1114	749	507	334	281	231	172	155	121	130
112	71	60	28	36	30	24	16	14	9	7	5	7	5
0	1	6	4	1	3	1	1	1]					

Edge Histogram for image 1296:

[4049	4582	2675	1362	759	517	357	304	226	204	193	187	139	149
96	89	73	81	62	45	37	35	27	21	22	22	11	12
8	11	10	6	8	3	1	1	1]					

Edge Histogram for image 1297:

[4386	2622	2249	1845	1338	1006	685	468	304	231	181	136	117	117
90	70	94	70	55	60	39	44	33	30	26	20	11	18
17	7	5	4	3	0	1	2	1]					

Edge Histogram for image 1298:

[3281	3788	2628	1900	1222	825	561	439	339	280	197	139	140	115
82	75	96	49	42	33	35	29	18	11	17	2	5	3
8	7	2	7	4	3	0	2	1]					

Edge Histogram for image 1299:

[3726	3802	2470	1808	1292	955	635	395	305	200	153	125	94	68
53	52	40	34	22	18	20	28	17	11	11	8	7	5
4	9	7	6	2	1	0	1	1]					

Edge Histogram for image 1300:

[3619	3404	2383	1683	1227	784	584	410	348	256	229	204	198	148
146	112	92	88	82	69	51	53	48	37	24	30	22	15
7	14	10	6	0	0	0	1	1]					

Edge Histogram for image 1301:

[2112	2927	2367	1667	1282	955	782	648	493	454	376	358	299	257
190	220	164	123	109	112	80	46	59	46	47	31	31	30
34	17	22	14	17	5	5	5	5]					

Edge Histogram for image 1302:

[4263	2486	1795	1461	1159	899	668	527	391	332	300	246	212	178
147	137	110	113	93	109	88	83	84	86	55	67	49	43
34	36	30	21	23	32	24	3	3]					

Edge Histogram for image 1303:

[5291	3353	1909	1169	755	620	465	412	369	291	219	199	169	163
117	116	114	90	87	60	61	61	47	41	42	31	46	14
16	14	12	15	10	4	1	1	1]					

Edge Histogram for image 1304:

[2833	2682	1962	1779	1513	1181	934	773	584	441	366	278	230	200
126	118	89	75	52	40	34	25	17	15	14	10	2	4
1	3	0	1	0	0	1	1	1]					

Edge Histogram for image 1305:

[5445	3979	2019	1239	767	529	361	272	202	161	135	118	126	69
76	83	69	69	90	76	70	68	49	38	45	48	33	34
21	33	17	19	12	6	3	3	3]					

Edge Histogram for image 1306:

[2316	2698	2287	1832	1490	1107	903	632	540	477	324	301	255	223
167	129	114	99	86	73	59	63	54	34	24	13	15	13

13	9	13	5	8	4	2	2]
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Edge Histogram for image 1307:

4255	3847	2245	1286	831	562	440	362	323	248	198	194	174	154
142	119	126	143	135	105	88	79	56	41	29	30	30	33
20	17	18	12	14	7	11	10]						

Edge Histogram for image 1308:

3058	3469	2942	2145	1341	820	541	419	345	253	215	166	125	100
77	62	49	40	38	44	35	20	14	16	13	4	5	5
0	8	3	5	4	1	1	1]						

Edge Histogram for image 1309:

4868	1888	1489	1267	1005	796	697	598	480	407	359	335	295	274
253	238	173	175	161	133	89	88	49	55	47	33	32	29
24	15	15	8	5	1	2	1]						

Edge Histogram for image 1310:

5794	3554	1948	1259	838	639	433	346	256	228	182	136	102	71
59	54	58	54	55	38	45	24	19	29	18	16	16	9
24	22	26	5	9	7	8	3]						

Edge Histogram for image 1311:

2458	3676	2456	1745	1325	1004	875	684	561	404	302	205	167	112
85	66	62	48	38	25	9	18	14	15	8	5	5	2
1	3	0	2	2	1	0	1]						

Edge Histogram for image 1312:

6227	3658	1839	1105	746	507	393	290	304	211	200	169	149	126
84	91	58	33	38	28	18	17	16	14	18	13	13	5
4	5	1	0	2	1	0	1]						

Edge Histogram for image 1313:

3565	4090	2527	1415	896	719	535	433	339	284	235	225	168	145
123	95	82	80	79	61	44	44	52	32	19	24	13	12
9	8	7	6	6	6	2	4]						

Edge Histogram for image 1314:

1363	2254	2188	1891	1674	1253	1037	819	689	524	498	390	324	252
216	167	142	125	102	79	76	55	45	46	35	30	24	21
13	15	11	7	10	2	3	4]						

Edge Histogram for image 1315:

5445	2877	1740	1157	872	653	519	438	337	316	254	227	226	193
191	138	121	129	96	90	75	68	51	40	50	23	18	14
9	6	0	4	5	0	0	2]						

Edge Histogram for image 1316:

2685	3611	2286	1596	1225	902	693	583	501	393	339	268	235	203
156	127	108	109	69	56	52	32	25	29	17	19	6	14
5	6	7	7	10	3	4	3]						

Edge Histogram for image 1317:

4024	3357	1793	1259	1065	910	718	579	473	446	375	273	230	171
155	118	94	85	63	51	37	27	26	9	8	5	12	7
6	1	2	2	1	0	1	1]						

Edge Histogram for image 1318:

3475	3659	1874	1186	954	820	597	478	438	365	298	327	261	297
235	190	185	141	106	102	85	63	64	52	33	24	21	20
14	7	7	2	2	0	1	1						

Edge Histogram for image 1319:

3312	4138	2593	1602	1068	699	504	391	302	253	182	162	155	134
152	115	84	59	63	50	33	54	44	34	35	35	34	30
22	14	12	7	4	2	1	5						

Edge Histogram for image 1320:

6009	2565	1288	1078	873	735	537	461	387	331	301	240	195	193
157	153	161	115	107	71	88	72	54	53	35	28	24	16
16	19	13	3	1	2	0	3						

Edge Histogram for image 1321:

1236	2244	2546	2276	1642	1233	1001	759	588	556	443	371	309	232
173	137	139	103	80	55	37	38	27	20	25	23	19	14
12	10	13	9	4	1	2	7						

Edge Histogram for image 1322:

2659	3030	2369	1773	1345	1085	819	691	489	407	302	278	213	164
130	114	81	59	58	51	42	28	30	33	27	22	23	20
13	10	7	4	3	4	0	1						

Edge Histogram for image 1323:

4747	3028	2486	1831	1212	812	464	255	224	176	156	103	110	117
93	87	77	65	51	49	36	28	33	26	14	18	18	12
15	15	7	9	4	2	3	1						

Edge Histogram for image 1324:

1421	1383	1533	1599	1503	1404	1155	1061	853	729	595	479	416	295
310	238	228	172	173	125	118	115	82	71	62	50	43	44
36	29	16	16	12	8	7	3						

Edge Histogram for image 1325:

691	1792	2236	2180	1869	1621	1242	930	787	584	441	361	282	260
199	165	143	151	95	94	65	49	41	34	26	20	10	7
4	1	1	0	1	0	1	1						

Edge Histogram for image 1326:

882	1821	1991	1926	1810	1621	1391	1148	975	686	510	408	268	216
156	109	100	65	60	50	33	32	19	19	17	18	12	9
5	10	6	1	3	3	0	4						

Edge Histogram for image 1327:

3750	2884	2174	1694	1209	905	703	507	424	325	269	226	230	177
165	121	94	109	66	80	50	57	34	17	23	18	13	11
21	9	2	1	3	4	4	5						

Edge Histogram for image 1328:

5221	2937	1901	1264	903	691	542	417	320	296	246	194	195	147
143	101	90	101	76	68	65	48	68	45	32	40	35	31
23	27	19	22	19	23	26	8						

Edge Histogram for image 1329:

3085	4353	2773	1767	1167	769	552	397	305	253	186	142	107	115
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75	60	57	33	30	26	20	20	20	11	22	11	9	5
6	3	1	2	0	1	0	1]						

Edge Histogram for image 1330:

[7692	1496	1150	951	788	669	554	468	352	293	251	216	185	163
118	128	103	97	87	69	66	67	56	59	40	52	34	32
35	30	33	19	16	7	5	3]						

Edge Histogram for image 1331:

[4010	3307	2196	1692	1259	906	674	532	378	284	230	181	156	118
97	60	60	44	30	25	21	20	19	14	14	11	9	5
6	4	4	8	3	4	2	1]						

Edge Histogram for image 1332:

[4243	3791	2082	1233	842	653	493	404	298	255	214	207	167	151
134	135	152	102	125	91	100	73	74	68	61	56	50	32
32	27	18	13	2	3	1	2]						

Edge Histogram for image 1333:

[1401	2955	3003	2407	1779	1255	853	685	494	353	255	205	155	132
97	66	41	64	37	30	28	20	14	17	8	7	7	6
0	3	2	0	2	0	2	1]						

Edge Histogram for image 1334:

[2910	3243	2430	1703	1293	981	710	517	471	342	261	207	173	121
117	98	82	95	75	80	64	52	60	56	33	39	35	21
21	20	19	12	10	16	13	4]						

Edge Histogram for image 1335:

[3106	3786	2509	1739	1306	932	735	522	376	305	255	183	159	118
91	69	52	32	23	20	15	9	6	5	6	5	4	1
3	3	2	2	0	3	1	1]						

Edge Histogram for image 1336:

[4500	4931	2545	1238	636	369	273	237	213	179	153	137	109	132
131	121	91	93	74	36	33	24	31	15	10	9	14	11
11	5	3	6	3	2	6	3]						

Edge Histogram for image 1337:

[2648	3520	2449	1740	1318	931	768	513	417	292	262	205	178	136
139	128	97	96	62	87	59	50	51	49	33	29	29	21
15	20	9	8	13	4	5	3]						

Edge Histogram for image 1338:

[4304	3459	2352	1562	1017	765	567	366	286	253	233	175	152	145
119	99	82	70	63	54	55	45	30	35	23	10	12	8
11	10	6	5	4	1	3	3]						

Edge Histogram for image 1339:

[1147	2544	2682	2260	1753	1329	966	756	553	426	397	282	249	207
141	150	90	103	73	58	42	43	29	30	14	12	13	9
4	4	3	9	2	3	0	1]						

Edge Histogram for image 1340:

[3219	2096	1818	1551	1146	974	756	627	565	480	392	347	328	289
247	243	218	180	163	131	103	88	77	77	59	52	44	33
28	23	18	6	3	1	1	1]						

Edge Histogram for image 1341:

[3258	4351	2851	1659	1024	676	451	324	256	230	171	141	126	93
73	55	47	53	39	30	50	40	33	46	39	35	34	29
31	28	32	27	27	12	8	5]						

Edge Histogram for image 1342:

[3667	2647	2145	1731	1275	964	706	525	407	289	224	203	180	144
148	113	117	92	98	77	74	68	59	50	68	58	67	44
36	32	24	17	11	10	11	3]						

Edge Histogram for image 1343:

[2712	2504	2249	1848	1453	1200	934	716	593	422	312	238	199	164
137	106	97	86	66	52	54	42	26	25	29	22	19	13
14	8	9	14	4	4	7	6]						

Edge Histogram for image 1344:

[4942	3690	2193	1429	1022	620	439	344	255	219	182	124	140	91
85	78	97	60	65	64	44	40	50	31	26	21	13	5
7	0	2	2	0	1	1	2]						

Edge Histogram for image 1345:

[1753	2262	2611	2284	1733	1395	986	795	626	466	339	258	179	146
113	90	55	49	38	31	26	20	22	22	9	11	13	14
11	10	8	4	1	2	0	2]						

Edge Histogram for image 1346:

[2456	3628	2842	1950	1353	984	701	510	414	293	250	187	131	136
83	78	52	54	31	32	38	37	25	18	20	16	4	12
8	4	10	8	11	4	3	1]						

Edge Histogram for image 1347:

[2119	2334	2198	1945	1463	1181	901	747	517	446	365	317	235	183
186	153	128	127	112	101	70	104	73	59	55	42	37	47
45	33	24	16	9	9	2	1]						

Edge Histogram for image 1348:

[2295	3162	2510	1938	1479	1139	877	598	452	345	277	230	201	166
107	92	93	75	87	53	46	31	19	18	21	18	10	10
7	8	10	3	5	0	0	2]						

Edge Histogram for image 1349:

[3718	3344	2447	1642	1172	855	652	505	395	323	214	185	143	121
84	72	75	52	39	45	39	39	39	31	31	20	20	21
14	7	8	9	13	5	3	2]						

Edge Histogram for image 1350:

[2588	3106	2365	1722	1334	1100	849	633	506	446	319	239	221	162
135	125	83	75	57	52	27	28	37	29	28	20	23	22
17	14	7	6	4	3	1	1]						

Edge Histogram for image 1351:

[4166	2331	1745	1491	1166	947	774	590	505	410	347	285	263	229
221	191	190	115	71	73	66	46	40	23	25	14	11	11
7	6	5	8	4	4	1	3]						

Edge Histogram for image 1352:

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[1977	2081	1812	1591	1337	1200	1020	880	807	673	582	460	385	335
259	214	167	108	103	93	60	64	52	32	26	14	15	7
10	5	7	3	2	1	0	2]						

Edge Histogram for image 1353:

[1859	2649	2131	1868	1459	1161	905	748	635	534	425	374	254	228
231	183	140	127	84	85	49	39	32	38	30	31	16	20
15	12	6	6	6	2	0	2]						

Edge Histogram for image 1354:

[1234	2292	2480	2171	1591	1282	1017	866	659	534	466	357	286	215
189	141	118	97	73	66	48	43	38	31	17	15	18	12
10	3	7	2	2	1	1	2]						

Edge Histogram for image 1355:

[834	1837	1996	1868	1651	1455	1218	1117	856	710	609	451	370	288
223	189	151	101	95	74	56	42	32	31	22	27	24	18
15	7	5	4	3	1	2	2]						

Edge Histogram for image 1356:

[3676	3818	2292	1443	984	784	630	493	380	341	224	205	189	143
110	109	87	68	67	68	39	55	36	37	23	24	9	11
7	5	9	4	4	4	3	3]						

Edge Histogram for image 1357:

[3316	4400	2495	1410	1008	739	562	475	351	298	255	205	159	112
87	94	68	55	36	41	34	23	18	17	20	16	13	16
8	9	9	11	13	5	4	2]						

Edge Histogram for image 1358:

[2353	3224	2334	1646	1198	936	749	641	488	432	347	300	295	232
193	169	147	137	94	75	69	61	59	46	40	34	21	21
13	11	7	5	5	1	0	1]						

Edge Histogram for image 1359:

[2051	2467	2236	1822	1500	1201	936	784	608	470	382	278	296	217
220	165	140	107	111	78	78	43	43	29	31	21	11	16
9	11	5	7	4	5	0	2]						

Edge Histogram for image 1360:

[4709	3853	2338	1518	1050	664	455	344	248	177	144	121	90	84
74	69	52	40	35	27	32	24	19	30	16	14	20	20
18	14	13	23	10	20	13	6]						

Edge Histogram for image 1361:

[783	1692	2012	1925	1768	1557	1225	1035	811	674	570	408	377	284
242	186	151	130	132	101	59	63	44	42	18	19	18	15
11	9	4	6	7	2	2	2]						

Edge Histogram for image 1362:

[2038	3221	2744	1925	1468	945	718	502	431	360	284	249	255	194
132	132	112	92	81	71	64	67	58	42	43	31	32	24
19	14	14	4	11	5	0	2]						

Edge Histogram for image 1363:

[5856	2095	1674	1473	1227	913	667	539	420	309	254	171	145	116
109	80	54	38	39	27	20	23	19	15	14	19	12	14

10	7	7	10	4	3	0	1]
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Edge Histogram for image 1364:

[9224	2049	1694	867	565	379	264	225	151	147	115	95	69	63
48	44	38	28	22	37	33	28	29	19	30	26	17	13
14	15	4	8	6	9	5	4]						

Edge Histogram for image 1365:

[1913	2773	2319	1842	1487	1169	951	796	564	494	326	284	237	219
155	119	96	79	83	82	62	62	48	38	42	21	28	32
18	13	11	6	4	4	6	1]						

Edge Histogram for image 1366:

[2521	3558	2496	1901	1472	969	783	580	400	297	247	199	156	124
119	114	87	78	44	42	30	19	27	19	21	26	9	11
10	8	4	3	1	3	3	3]						

Edge Histogram for image 1367:

[3859	3593	2401	1730	1319	952	663	471	314	273	168	122	95	66
68	56	39	40	33	27	12	15	8	7	8	5	2	8
4	5	6	4	4	3	3	1]						

Edge Histogram for image 1368:

[2282	2113	1917	1583	1407	1222	971	827	718	602	489	409	342	276
272	210	175	121	103	95	59	38	40	32	28	12	16	8
5	4	3	2	0	1	1	1]						

Edge Histogram for image 1369:

[5064	3300	2323	1409	1028	697	480	347	267	213	170	164	112	106
111	86	77	66	52	55	52	33	21	19	12	14	15	22
13	11	9	14	6	5	9	2]						

Edge Histogram for image 1370:

[3110	3579	2361	1479	1185	890	734	576	484	369	270	248	192	123
117	98	102	74	49	53	49	36	30	41	20	21	21	16
14	13	12	6	7	2	2	1]						

Edge Histogram for image 1371:

[4662	4137	2220	1414	942	657	526	431	333	265	197	135	106	80
69	46	53	42	27	11	10	8	2	2	3	1	0	1
0	0	0	1	0	1	1	1]						

Edge Histogram for image 1372:

[6867	3484	1477	958	667	503	391	291	254	200	179	184	162	161
122	109	76	65	44	37	28	21	16	18	13	14	10	8
4	7	5	3	4	0	0	0]						

Edge Histogram for image 1373:

[1937	3036	2397	1848	1446	1076	844	641	538	423	326	274	221	189
162	133	126	94	119	90	76	79	74	58	35	38	26	15
19	11	10	11	5	3	2	2]						

Edge Histogram for image 1374:

[1540	2729	2757	2255	1723	1251	873	643	502	389	314	250	190	189
156	136	103	73	60	50	49	27	28	22	13	14	11	9
6	6	5	1	4	3	1	2]						

Edge Histogram for image 1375:

[2651	3034	2627	1943	1424	1109	804	609	511	382	279	216	170	121
96	97	66	58	42	36	29	15	14	15	7	4	4	6
3	2	4	1	2	0	1	2						

Edge Histogram for image 1376:

[3707	4270	2560	1495	1054	718	454	378	312	202	182	149	118	138
101	83	57	50	47	45	47	40	41	28	22	22	17	10
7	5	11	3	4	5	1	1						

Edge Histogram for image 1377:

[3740	3930	2477	1692	1105	781	586	432	263	238	184	144	112	95
103	79	74	63	66	63	38	20	12	22	12	7	12	8
5	6	5	2	0	5	0	3						

Edge Histogram for image 1378:

[2795	3768	2897	1981	1278	830	586	423	317	265	203	181	160	111
101	92	74	63	38	37	24	27	23	25	18	18	19	11
8	4	0	1	2	1	0	3						

Edge Histogram for image 1379:

[2185	2950	2473	1761	1316	1058	849	694	566	428	382	290	253	243
163	150	108	95	81	71	53	36	34	32	25	22	18	14
6	4	4	11	3	1	2	3						

Edge Histogram for image 1380:

[1336	2028	2079	1856	1546	1276	1074	861	736	670	524	474	363	326
253	211	178	138	95	79	52	36	35	34	29	19	21	17
12	6	9	3	0	5	1	2						

Edge Histogram for image 1381:

[2698	3328	2606	1942	1242	891	643	479	370	302	239	214	167	180
154	133	116	103	96	87	69	59	66	45	32	30	24	8
13	16	7	5	8	6	3	3						

Edge Histogram for image 1382:

[3109	3764	3036	2057	1229	770	537	371	281	218	169	159	140	118
85	54	48	47	37	32	21	17	16	21	9	10	4	4
6	3	3	2	1	0	4	2						

Edge Histogram for image 1383:

[3850	3927	2354	1427	1004	753	530	477	360	297	251	192	140	126
121	97	89	65	51	44	48	38	36	26	26	11	11	2
8	7	4	5	2	0	3	2						

Edge Histogram for image 1384:

[6202	3690	1660	989	685	515	402	349	318	244	187	153	111	116
112	76	59	62	64	36	50	50	39	43	40	26	20	14
13	20	13	12	5	6	1	2						

Edge Histogram for image 1385:

[8260	2473	1293	907	618	490	382	270	239	193	141	114	106	112
106	63	70	47	69	44	48	40	37	50	31	21	22	11
17	15	16	21	26	19	8	5						

Edge Histogram for image 1386:

[3479	3772	2746	1786	1165	765	505	347	263	198	193	157	132	99
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117	94	101	80	67	64	53	45	43	34	17	15	7	7
8	6	7	5	2	3	1	1	1]					

Edge Histogram for image 1387:

998	1914	1950	1943	1731	1402	1249	1007	794	644	582	422	351	280
254	194	159	121	88	70	57	44	30	27	14	16	14	6
7	4	5	2	3	1	0	1	3]					

Edge Histogram for image 1388:

782	1754	2224	2298	1957	1512	1279	979	806	588	447	366	298	222
177	143	111	88	85	60	44	29	18	28	18	9	14	6
8	6	8	8	5	3	1	3	3]					

Edge Histogram for image 1389:

1364	2871	2874	2336	1740	1347	998	704	486	357	273	203	139	117
94	73	69	52	52	37	24	27	25	20	13	22	11	16
13	6	6	6	2	4	2	1	1]					

Edge Histogram for image 1390:

2504	2837	2190	1914	1461	1111	837	615	455	349	258	229	190	180
176	157	126	113	116	90	91	72	59	53	45	35	28	26
13	12	15	7	8	4	4	4	4]					

Edge Histogram for image 1391:

8347	2277	1211	772	681	542	423	307	262	193	167	125	117	103
91	81	83	80	57	66	70	55	37	60	44	35	17	20
17	13	12	8	2	0	4	5	5]					

Edge Histogram for image 1392:

5181	3850	1935	1080	727	575	425	354	294	269	231	206	176	172
152	138	89	102	81	63	58	38	51	37	19	15	19	13
13	10	4	1	4	1	0	1	1]					

Edge Histogram for image 1393:

3336	2946	2455	1857	1289	958	678	463	351	256	242	173	154	139
138	95	99	91	67	82	66	67	65	53	40	40	41	31
29	26	27	14	6	5	3	2	2]					

Edge Histogram for image 1394:

6802	3220	1401	925	630	495	393	317	255	235	180	149	127	157
127	123	87	90	95	92	84	80	64	67	55	40	23	17
19	10	9	7	5	0	1	3	3]					

Edge Histogram for image 1395:

1065	2212	2548	2225	1894	1515	1123	872	658	524	374	279	222	150
130	107	83	73	50	50	42	31	35	30	21	13	16	6
6	8	5	4	2	5	5	1	1]					

Edge Histogram for image 1396:

3718	3201	2240	1604	1167	909	633	531	396	341	270	233	186	140
154	111	105	71	73	60	51	37	31	30	18	13	9	7
17	6	7	3	3	4	1	4	4]					

Edge Histogram for image 1397:

1857	3408	2883	1987	1353	953	769	573	468	380	306	254	215	189
160	132	113	78	66	54	47	33	25	19	13	9	5	10
7	6	2	4	1	1	2	2	2]					

Edge Histogram for image 1398:

[3005	4005	2725	1935	1445	967	671	429	323	192	164	110	83	65
35	42	31	24	14	14	15	14	6	9	9	12	10	9
5	6	2	2	2	3	0	1]						

Edge Histogram for image 1399:

[3543	3742	2586	1609	1090	735	552	399	348	266	212	172	148	122
131	102	88	74	84	69	50	32	42	32	33	31	18	22
13	11	10	8	4	2	2	2]						

Edge Histogram for image 1400:

[1452	2553	2147	1585	1066	831	685	573	511	476	423	400	381	338
341	309	284	302	266	267	230	243	177	185	131	107	52	29
13	5	7	6	3	3	2	1]						

Edge Histogram for image 1401:

[3488	4023	3123	1820	1005	554	420	318	248	196	198	134	144	127
110	109	92	59	57	26	26	16	15	19	6	15	8	5
4	3	7	3	1	3	0	2]						

Edge Histogram for image 1402:

[3869	3227	1916	1386	986	781	645	583	515	437	332	297	255	194
162	130	106	103	98	57	48	47	43	37	28	16	18	19
13	10	6	3	6	5	3	3]						

Edge Histogram for image 1403:

[4539	3505	2286	1572	1101	783	553	406	298	217	185	156	111	110
102	90	76	62	54	37	38	16	25	14	14	10	7	4
4	1	3	1	1	1	1	1]						

Edge Histogram for image 1404:

[2049	2615	2393	2045	1591	1314	977	686	529	415	316	229	205	143
139	94	89	89	71	64	58	48	35	38	16	33	18	20
22	11	12	10	4	1	4	1]						

Edge Histogram for image 1405:

[1731	2729	2582	2178	1760	1295	923	640	485	373	300	199	172	151
126	111	98	95	61	49	55	49	30	29	25	28	24	25
19	12	12	4	5	2	4	3]						

Edge Histogram for image 1406:

[2349	2719	2400	1967	1402	1109	732	580	451	367	286	253	223	203
165	143	129	120	105	91	72	80	75	72	68	57	47	31
32	20	14	9	7	3	0	3]						

Edge Histogram for image 1407:

[1734	2865	2595	2047	1460	1030	791	550	493	356	311	295	234	205
173	190	175	133	136	125	92	77	64	50	40	45	33	26
21	13	8	7	7	1	0	2]						

Edge Histogram for image 1408:

[1987	3538	3298	2412	1586	957	617	408	274	234	172	158	125	89
81	79	61	42	31	46	23	26	25	21	16	14	14	10
11	6	6	4	4	3	3	3]						

Edge Histogram for image 1409:

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[2606	4128	3147	1873	1104	675	484	351	270	223	190	191	158	133
120	109	82	86	66	63	64	50	38	30	33	28	23	15
8	8	9	7	3	2	4	3]						

Edge Histogram for image 1410:

[3659	3888	2680	1801	1268	781	551	377	287	231	167	129	109	92
80	50	50	35	36	20	26	18	7	9	5	8	3	3
3	1	0	3	2	1	0	4]						

Edge Histogram for image 1411:

[2548	3149	2136	1655	1327	1110	873	726	593	456	357	250	223	191
150	132	95	71	62	59	44	30	24	25	21	15	13	5
11	6	7	7	4	4	2	3]						

Edge Histogram for image 1412:

[4034	4208	2399	1452	1047	722	584	407	301	209	164	103	109	73
62	59	39	40	37	42	37	25	27	29	32	25	20	18
20	14	18	5	11	7	3	2]						

Edge Histogram for image 1413:

[3057	3924	2843	1979	1233	864	609	373	286	249	173	108	130	112
69	65	56	37	46	29	37	19	13	15	15	11	7	9
4	5	0	1	2	3	0	1]						

Edge Histogram for image 1414:

[1718	2370	1933	1433	1294	1187	1047	951	832	647	518	441	396	303
256	204	142	132	110	87	65	66	44	35	27	31	21	23
27	10	10	3	6	6	5	4]						

Edge Histogram for image 1415:

[3591	2433	2356	1949	1524	1096	765	572	456	358	285	221	177	124
97	85	67	48	29	20	25	17	13	14	6	13	18	15
5	1	1	0	1	0	1	1]						

Edge Histogram for image 1416:

[4458	3058	2154	1620	1209	961	709	535	396	271	226	173	128	107
90	76	67	44	20	8	15	12	16	6	3	0	3	2
4	3	1	2	5	1	0	1]						

Edge Histogram for image 1417:

[2787	3093	2164	1594	1148	967	755	614	513	451	387	336	289	223
198	149	143	97	95	92	68	45	49	28	23	19	17	8
8	4	6	2	2	5	1	4]						

Edge Histogram for image 1418:

[622	1575	2043	2128	2077	1793	1530	1130	875	621	490	334	262	183
159	114	94	80	52	59	48	19	15	19	10	8	14	9
7	3	6	2	0	1	1	1	1]					

Edge Histogram for image 1419:

[962	1929	2277	2209	1961	1525	1212	905	709	512	422	348	257	200
170	128	121	97	85	79	53	47	36	35	32	22	7	9
10	7	7	4	4	2	0	1]						

Edge Histogram for image 1420:

[1106	2482	2646	2285	1753	1352	1079	778	595	502	359	279	207	183
142	125	115	90	65	57	43	22	27	15	14	20	10	7

5	9	6	1	2	1	1	1]
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Edge Histogram for image 1421:

[2832	3454	2490	1880	1342	1009	723	514	392	347	241	208	162	130
119	91	71	74	53	46	27	28	20	23	22	18	18	9
11	9	4	3	7	3	3	1]						

Edge Histogram for image 1422:

[4115	3576	2258	1466	1037	754	521	466	389	334	250	209	165	116
134	95	83	76	48	50	44	45	37	31	22	12	12	13
11	7	0	1	1	3	1	2]						

Edge Histogram for image 1423:

[6550	3147	1882	1178	758	523	425	314	270	195	167	137	134	112
117	87	47	54	47	40	25	26	19	20	23	17	16	11
7	11	6	4	7	4	3	1]						

Edge Histogram for image 1424:

[6921	3926	1818	1000	610	424	332	233	195	145	108	93	76	73
80	62	51	34	47	34	21	25	25	16	8	7	9	4
0	0	5	1	0	0	0	1]						

Edge Histogram for image 1425:

[2973	3237	2408	1645	1260	978	827	625	461	379	311	254	218	148
122	122	71	72	64	49	33	23	20	15	15	14	12	6
6	2	4	3	2	3	1	1]						

Edge Histogram for image 1426:

[2963	3918	2522	1674	1261	907	675	492	405	327	246	196	171	133
108	79	68	49	32	42	31	23	16	8	9	6	4	4
7	3	2	1	0	1	0	1]						

Edge Histogram for image 1427:

[2928	4086	2687	1689	1167	861	630	511	399	317	277	193	151	104
97	71	52	39	25	22	16	8	13	6	4	4	4	4
6	5	0	3	0	2	1	2]						

Edge Histogram for image 1428:

[4261	3097	2314	1824	1240	890	610	442	299	216	176	138	117	109
105	80	70	67	55	46	57	37	21	30	18	14	10	9
8	6	5	4	4	2	2	1]						

Edge Histogram for image 1429:

[6084	2327	1639	1151	925	736	593	479	408	286	271	216	146	137
93	89	91	85	76	69	57	57	46	49	49	34	43	34
33	21	21	8	15	7	7	2]						

Edge Histogram for image 1430:

[2383	2943	2591	2223	1699	1241	872	659	475	310	254	171	134	99
77	50	43	25	20	21	16	12	13	7	8	8	8	1
3	3	5	4	2	1	1	2]						

Edge Histogram for image 1431:

[3051	4439	3008	1795	1126	775	563	397	277	195	171	100	103	70
57	43	34	27	20	18	12	8	10	10	8	6	9	7
5	8	8	8	6	6	3	1]						

Edge Histogram for image 1432:

2365	2641	2094	1685	1431	1254	1057	800	602	536	393	269	230	191
176	116	112	67	54	51	53	42	21	42	22	11	12	16
8	15	4	4	2	4	1	3						

Edge Histogram for image 1433:

2982	3866	2603	1603	1133	831	621	525	416	326	303	202	153	114
127	79	71	55	53	40	50	26	38	22	27	18	17	15
16	7	13	18	10	3	0	1						

Edge Histogram for image 1434:

2272	2584	2309	1900	1542	1193	915	729	563	446	338	260	214	156
128	117	99	83	63	66	49	43	35	51	27	37	35	27
23	20	17	11	8	14	6	4						

Edge Histogram for image 1435:

4680	3606	2109	1449	1006	748	575	429	323	231	195	163	142	100
88	99	82	66	48	49	36	31	24	22	15	15	16	15
4	6	3	2	3	2	1	1						

Edge Histogram for image 1436:

2952	3610	2817	2029	1414	859	578	416	310	214	171	149	130	111
103	113	88	59	41	40	28	27	21	23	14	10	16	6
7	5	8	6	2	3	2	2						

Edge Histogram for image 1437:

2022	2591	1796	1314	1145	972	872	790	642	597	536	461	407	362
294	229	231	173	180	152	119	114	69	74	48	54	30	24
23	18	12	8	8	7	3	7						

Edge Histogram for image 1438:

1389	2979	2960	2467	1796	1285	921	599	375	303	209	171	145	122
95	62	60	52	63	52	36	56	39	24	26	18	18	5
9	8	6	11	7	7	6	3						

Edge Histogram for image 1439:

4026	2999	2223	1481	1092	818	632	530	460	347	292	277	217	172
149	122	120	97	61	74	56	39	27	20	13	5	6	9
7	5	1	0	0	3	1	3						

Edge Histogram for image 1440:

4645	2475	2018	1500	1112	828	631	554	429	370	290	234	195	158
145	130	106	106	63	52	54	57	39	33	33	25	26	16
15	13	9	7	6	3	4	3						

Edge Histogram for image 1441:

2694	2631	2385	2004	1480	1105	809	622	498	394	282	244	202	189
153	142	124	90	87	56	45	39	26	17	20	8	9	5
9	5	2	0	4	0	1	3						

Edge Histogram for image 1442:

2373	3420	2528	1972	1528	1130	816	615	422	339	230	170	144	130
118	82	70	59	49	37	28	32	25	18	12	11	5	5
7	2	1	2	1	0	2	1						

Edge Histogram for image 1443:

3337	4259	2336	1417	1018	722	565	509	421	335	281	257	194	137
------	------	------	------	------	-----	-----	-----	-----	-----	-----	-----	-----	-----

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111	86	71	54	55	43	34	26	24	25	18	7	11	8
7	3	3	3	4	1	1	1	1	1	1	1	1	1

Edge Histogram for image 1444:

[3867	3437	2104	1472	1012	783	658	542	447	346	266	230	203	167
139	135	105	91	77	65	51	39	40	33	20	14	9	8
5	4	7	5	1	1	0	1	1	1	1	1	1	1

Edge Histogram for image 1445:

[2352	3840	3255	2149	1393	964	639	467	338	259	190	143	109	68
64	41	26	10	11	15	7	13	2	6	5	4	4	1
2	0	2	0	1	1	0	3	1	1	1	1	1	1

Edge Histogram for image 1446:

[1558	2533	2541	2274	1832	1410	1046	741	552	406	328	236	178	122
116	90	81	51	43	42	47	36	26	13	24	15	10	7
6	4	7	2	3	2	0	2	1	1	1	1	1	1

Edge Histogram for image 1447:

[2801	3983	2891	1897	1134	747	538	360	311	239	197	174	155	127
122	96	91	67	62	57	62	47	35	42	27	23	17	16
15	11	12	5	9	7	3	4	1	1	1	1	1	1

Edge Histogram for image 1448:

[2420	3559	2701	1859	1376	885	714	509	404	344	283	223	194	138
117	90	88	66	61	46	42	44	25	24	30	15	26	14
13	19	10	13	10	12	3	7	1	1	1	1	1	1

Edge Histogram for image 1449:

[7912	2318	1215	851	668	569	460	354	263	216	188	140	128	115
123	101	87	108	90	79	76	75	56	40	35	32	25	17
9	17	9	3	1	2	0	2	1	1	1	1	1	1

Edge Histogram for image 1450:

[4313	2490	1878	1544	1133	974	773	564	414	344	292	236	204	187
143	105	114	111	102	79	81	64	50	42	45	29	23	14
11	8	5	5	1	3	2	1	1	1	1	1	1	1

Edge Histogram for image 1451:

[890	2080	2504	2243	1998	1573	1209	907	722	556	412	312	217	180
151	121	78	51	43	40	25	18	14	9	10	3	4	4
5	1	1	1	0	0	1	1	1	1	1	1	1	1

Edge Histogram for image 1452:

[530	1349	1769	1926	1825	1582	1355	1127	977	723	594	483	410	281
256	215	145	141	116	96	82	84	73	62	42	30	28	16
14	13	13	10	5	7	1	4	1	1	1	1	1	1

Edge Histogram for image 1453:

[1392	2639	2566	2215	1737	1280	1009	715	537	433	308	289	207	178
168	127	97	82	71	50	45	41	48	34	22	12	21	18
8	16	9	1	1	4	1	3	1	1	1	1	1	1

Edge Histogram for image 1454:

[2086	3425	2788	1959	1386	944	713	602	437	373	293	262	217	175
134	114	93	75	57	45	37	29	30	33	23	13	8	11
7	4	2	4	1	1	1	2	1	1	1	1	1	1

Edge Histogram for image 1455:

```
[ 910 1947 2112 2009 1793 1442 1167 854 778 644 494 447 312 258
  215 213 168 133 111 96 73 43 47 20 27 14 13 12
    6    9    3    2    5    1    2    4]
```

Edge Histogram for image 1456:

```
[1652 2688 2591 2136 1776 1416 1049 724 501 337 268 195 175 141
  105  97  90  70  64  46  55  41  28  32  24  14  17  10
    8    9    6    9    4    2    1    3]
```

Edge Histogram for image 1457:

```
[3119 3690 2960 2067 1220 799 507 407 275 228 209 140 137 116
  119  76  65  44  43  43  19  17  16  17  10  7    7    4
    2    4    3    4    0    3    4    3]
```

Edge Histogram for image 1458:

```
[3815 4561 2698 1464 780 550 368 298 248 187 215 201 142 128
  98   96  89  69  74  55  32  34  31  25  20  22  20   9
    11   10   9   7   4   6   4   4]
```

Edge Histogram for image 1459:

```
[3904 2654 2221 1816 1465 1075 772 520 377 269 183 125 129 102
  97   100  82  74  54  63  53  38  48  33  25  26  13   19
    19   12   7   1   2   3   0   3]
```

Edge Histogram for image 1460:

```
[3879 3731 2410 1837 1323 878 605 389 293 209 178 101 99 69
  59   49   39   39   21   29   19   19   27   9   18   10   4   10
    11    7    3    2    2    1    2    3]
```

Edge Histogram for image 1461:

```
[3418 4090 2666 1727 1128 695 547 416 329 230 195 169 129 115
  99   79   57   49   55   46   33   15   18   11   12   10   5   4
    7    2    8    5    3    5    2    5]
```

Edge Histogram for image 1462:

```
[3117 3389 2546 1672 1269 862 622 437 343 287 242 193 182 190
  139  137  111  89  87  55  58  68  41  50  38  29  28  25
    21   15   9   10   8   7   5   3]
```

Edge Histogram for image 1463:

```
[2192 2926 2429 1709 1295 1003 749 623 525 426 345 350 279 250
  200  186  167  128  92  81  76  52  55  40  35  38  26  29
    30   15   13   5   5   6   2   2]
```

Edge Histogram for image 1464:

```
[4049 2738 1952 1399 1202 810 596 499 432 322 249 243 234 178
  158  127  112  96  94  105 103  66  69  92  61  66  44  45
    50   35   42   26   16   24   29   21]
```

Edge Histogram for image 1465:

```
[5165 3498 1970 1174 780 567 484 434 334 275 235 207 192 135
  115  100  116  81  77  51  68  61  44  37  34  34  27  19
    16   17   15   11   7   2   1   1]
```

Edge Histogram for image 1466:

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[2921	2573	1982	1850	1554	1219	942	694	560	409	358	241	228	187
154	113	95	69	50	38	34	29	23	17	17	7	8	4
3	2	1	0	0	0	1	1						

Edge Histogram for image 1467:

[5306	4063	2264	1260	732	470	338	222	199	155	147	123	99	75
99	80	73	78	76	73	65	59	44	51	37	40	34	32
23	15	18	15	7	8	2	2						

Edge Histogram for image 1468:

[2173	2754	2319	1886	1470	1165	871	689	531	428	328	305	250	198
178	132	121	106	77	81	59	53	47	40	25	14	15	12
13	9	9	5	9	9	2	1						

Edge Histogram for image 1469:

[4625	3919	2136	1289	724	519	443	353	297	248	197	186	147	154
163	162	102	123	125	93	84	51	42	38	35	22	25	19
12	16	6	5	11	5	4	4						

Edge Histogram for image 1470:

[3220	3572	3048	2090	1246	788	535	405	320	246	183	131	103	94
88	54	44	35	40	37	21	18	14	10	13	4	3	1
5	6	5	2	0	1	1	1						

Edge Histogram for image 1471:

[4367	2242	1607	1262	1045	833	677	565	484	397	351	341	305	257
251	196	173	172	171	128	98	76	84	59	54	43	29	21
24	21	21	11	8	6	2	3						

Edge Histogram for image 1472:

[5813	3537	1980	1294	868	585	412	362	276	205	142	140	91	93
70	55	54	44	50	29	46	39	24	17	21	20	21	9
18	17	12	13	16	5	3	3						

Edge Histogram for image 1473:

[3481	3316	2139	1687	1262	1073	832	649	517	366	262	209	142	105
84	53	34	27	39	16	22	17	17	8	3	2	6	3
4	1	3	2	1	1	0	1						

Edge Histogram for image 1474:

[5810	3877	1884	1149	747	553	373	311	243	253	202	171	157	125
112	72	67	59	33	31	25	20	14	20	13	15	10	14
5	8	3	4	2	0	1	1						

Edge Histogram for image 1475:

[3585	4052	2652	1545	952	637	518	420	337	272	230	181	166	137
103	93	79	68	66	46	52	51	28	24	20	12	11	7
14	11	3	5	4	0	1	2						

Edge Histogram for image 1476:

[1329	2240	2230	1902	1691	1294	1036	836	669	547	492	382	310	260
197	170	139	99	103	84	59	57	47	39	35	33	23	17
18	12	14	5	5	3	3	4						

Edge Histogram for image 1477:

[5096	2841	1781	1226	869	684	558	405	377	304	279	252	201	221
145	164	158	133	110	93	73	80	62	64	50	40	32	29

16	16	9	3	5	3	0	5]
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Edge Histogram for image 1478:

2673	3544	2252	1650	1228	895	715	584	496	393	343	286	230	216
161	138	91	93	94	59	46	40	26	19	21	16	15	13
6	8	6	6	9	5	2	5]						

Edge Histogram for image 1479:

4772	3036	1828	1380	1087	875	692	590	476	361	293	234	169	129
118	70	68	50	45	32	20	18	10	11	6	3	1	2
1	3	2	1	0	0	0	1]						

Edge Histogram for image 1480:

3455	4191	2587	1523	1038	745	463	360	304	243	185	185	131	138
134	95	98	78	53	45	55	36	44	32	36	31	30	23
19	7	8	4	1	2	2	3]						

Edge Histogram for image 1481:

3483	3647	1838	1281	959	753	589	505	412	370	334	283	258	265
229	237	161	125	116	105	111	63	65	48	43	24	19	24
16	8	3	6	2	0	0	2]						

Edge Histogram for image 1482:

6034	2248	1474	1121	867	743	535	445	424	325	272	281	202	194
170	166	135	133	115	84	74	74	53	55	42	27	16	21
20	10	9	6	6	1	0	2]						

Edge Histogram for image 1483:

1237	2446	2547	2264	1628	1288	962	773	592	559	421	350	245	207
161	155	121	88	56	46	47	32	23	16	31	16	15	19
9	8	8	4	1	4	4	1]						

Edge Histogram for image 1484:

2625	3118	2457	1757	1295	1038	819	682	512	367	318	252	223	172
133	109	75	67	50	56	37	31	30	30	23	24	18	15
14	13	8	7	5	1	1	2]						

Edge Histogram for image 1485:

4702	3054	2449	1912	1230	779	454	280	222	180	142	112	121	108
99	70	73	58	49	51	37	32	26	26	13	18	15	12
18	12	8	7	4	7	1	3]						

Edge Histogram for image 1486:

1504	1686	1784	1839	1653	1486	1203	950	812	572	456	400	337	265
213	179	184	131	117	120	75	76	61	67	58	26	42	24
20	13	11	4	10	2	2	2]						

Edge Histogram for image 1487:

777	1978	2463	2279	1877	1497	1245	865	670	525	414	351	266	222
179	158	133	108	99	70	56	44	31	26	23	9	8	8
1	1	0	0	0	0	0	1]						

Edge Histogram for image 1488:

1121	2132	2290	2145	1954	1643	1276	1075	803	505	368	265	200	134
107	70	69	39	35	28	20	17	21	11	10	15	7	9
6	1	4	2	0	1	0	0	1]					

Edge Histogram for image 1489:

3549	3193	2301	1668	1177	893	678	499	404	315	275	248	186	155
152	138	97	78	78	68	53	38	24	25	21	13	11	13
4	11	4	1	1	4	6	3						

Edge Histogram for image 1490:

5223	3220	1814	1279	907	677	525	397	324	299	211	224	170	159
123	92	99	87	66	65	53	43	40	41	40	38	25	24
36	15	6	23	12	8	9	10						

Edge Histogram for image 1491:

3014	4187	2734	1809	1200	813	581	418	332	258	201	152	133	107
93	68	48	41	31	28	16	19	15	16	17	15	12	10
5	4	2	1	1	1	0	2						

Edge Histogram for image 1492:

7423	1798	1229	982	764	683	579	402	369	309	258	220	156	140
124	115	117	74	78	77	74	57	50	46	42	40	41	27
25	28	19	16	12	5	4	1						

Edge Histogram for image 1493:

4348	3461	2345	1628	1158	762	605	437	334	274	193	185	119	106
88	68	61	38	26	23	25	16	16	13	11	9	5	3
4	7	3	4	3	1	2	3						

Edge Histogram for image 1494:

3806	3827	2256	1334	915	635	505	355	317	281	202	205	173	153
145	150	125	129	115	108	81	82	81	71	61	56	52	39
37	26	22	18	14	4	3	1						

Edge Histogram for image 1495:

1618	3271	3158	2436	1637	1161	806	567	418	325	242	160	132	94
75	57	44	40	35	24	21	19	13	11	3	6	4	2
0	0	0	2	0	2	0	1						

Edge Histogram for image 1496:

3086	3759	2573	1747	1318	948	699	508	411	301	246	199	133	109
90	65	46	29	26	16	14	12	7	11	5	6	3	1
6	3	1	0	2	2	1	1						

Edge Histogram for image 1497:

2670	3377	2397	1736	1285	1013	702	557	433	374	267	203	175	139
125	101	87	103	64	77	75	54	50	52	37	52	28	32
23	25	13	13	13	16	13	3						

Edge Histogram for image 1498:

4053	4958	2654	1386	726	434	288	243	211	157	148	120	131	111
107	120	111	105	70	52	29	31	38	12	7	19	7	10
13	8	6	4	3	3	5	4						

Edge Histogram for image 1499:

1193	2670	2756	2334	1756	1277	971	668	532	435	339	252	219	190
147	137	117	81	55	58	33	32	26	29	14	16	7	6
7	8	7	2	4	2	3	1						

Edge Histogram for image 1500:

4357	3500	2389	1570	1005	730	521	385	277	239	222	175	163	146
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114	87	62	75	56	55	62	52	38	27	12	12	8	7
9	8	7	8	1	1	0	4]						

Edge Histogram for image 1501:

2444	3497	2530	1798	1328	950	748	558	458	300	250	197	160	155
130	127	105	73	64	82	66	60	49	42	32	36	24	26
30	10	17	7	8	8	12	3]						

Edge Histogram for image 1502:

3020	2324	1756	1470	1193	920	771	646	541	455	426	360	321	317
279	205	220	172	184	141	112	102	78	65	61	51	54	28
42	19	20	15	9	2	3	2]						

Edge Histogram for image 1503:

3169	4282	2929	1735	1106	671	437	355	251	207	173	132	104	83
81	57	48	49	42	41	43	34	40	39	37	36	29	28
20	35	27	28	14	11	6	5]						

Edge Histogram for image 1504:

3494	2727	2183	1707	1349	977	745	526	410	297	249	190	180	141
127	121	116	96	79	84	71	73	55	56	73	48	44	43
35	36	16	13	9	9	3	2]						

Edge Histogram for image 1505:

2439	2674	2291	1940	1469	1208	922	726	559	429	308	223	203	183
130	114	89	64	79	62	42	39	28	24	28	17	11	12
10	12	13	6	14	3	10	3]						

Edge Histogram for image 1506:

5118	3778	2246	1463	950	588	435	317	243	203	145	130	127	70
101	73	58	61	60	50	39	35	31	19	19	7	5	5
2	1	1	1	0	1	1	1]						

Edge Histogram for image 1507:

3330	3886	2812	1738	1135	774	538	390	319	251	207	168	136	110
99	106	62	44	58	56	29	24	25	17	16	8	13	8
4	3	7	2	4	1	2	2]						

Edge Histogram for image 1508:

1559	2361	2643	2236	1780	1340	1018	849	617	496	351	227	219	140
111	81	57	52	30	40	33	15	28	19	13	13	7	14
7	6	12	2	2	3	0	3]						

Edge Histogram for image 1509:

2374	3733	2759	2020	1369	1016	691	524	376	290	250	182	142	112
98	67	66	35	31	37	33	33	28	24	20	18	8	6
5	6	10	6	5	4	3	3]						

Edge Histogram for image 1510:

2110	2530	2280	1921	1538	1186	904	591	459	422	353	236	215	208
174	122	119	126	110	106	96	83	72	67	69	43	50	38
36	27	40	20	9	10	8	6]						

Edge Histogram for image 1511:

2169	3191	2591	1975	1525	1091	824	640	432	382	258	238	185	143
132	118	76	79	72	58	49	34	29	16	11	9	11	13
2	10	7	2	5	4	1	2]						

Edge Histogram for image 1512:

```
[3575 3345 2481 1751 1190 871 651 529 393 314 243 174 141 83
 88   66   57   61   44   35   40   42   34   27   26   26   17   9
 14   11    8    9    6   10    8    5]
```

Edge Histogram for image 1513:

```
[2552 3261 2308 1735 1366 1019 822 677 491 385 343 246 226 162
 136  129  91   57   52   47   39   30   38   34   17   22   18   21
 16   14   12    7    6   1    2    2]
```

Edge Histogram for image 1514:

```
[4090 2526 1861 1466 1166 894 792 573 475 410 339 315 225 215
 224  183  149  110  77  74  47  38  30  23  18  15   8   8
 6    6    8    4    3    3    2    1]
```

Edge Histogram for image 1515:

```
[2217 2084 1821 1665 1411 1263 1048 925 770 596 513 423 348 266
 223  197  131  106  78  72  58  40  42  27  15  17  11   5
 5    0    3    2    0    0    0    2]
```

Edge Histogram for image 1516:

```
[1874 2602 2292 1807 1530 1137 864 771 607 565 399 351 275 239
 213  158  140  117  91  72  43  42  35  29  28  28  19   19
 13    5    7    2    3    4    1    2]
```

Edge Histogram for image 1517:

```
[1177 2430 2617 2125 1599 1295 1015 852 651 506 436 352 246 222
 171  131  115  98   64   63   44   40   32   29   15   14   10   16
 4    4    4    4    0    1    1    1]
```

Edge Histogram for image 1518:

```
[ 992 1974 2171 2001 1681 1465 1190 989 777 647 551 413 316 266
 193  149  115  86   93   56   45   38   33   27   19   21   17   17
 14    10   4    3    6    2    1    2]
```

Edge Histogram for image 1519:

```
[3539 4088 2192 1442 1014 823 597 513 359 307 251 201 175 124
 116  105  106  58   66   48   47   56   34   31   25   13   10   10
 5    5    9    3    3    4    4    1]
```

Edge Histogram for image 1520:

```
[3361 4223 2452 1505 911 791 601 463 398 317 238 208 154 132
 108   78   80   56   46   28   25   38   20   24   14   22   10   16
 11    7    6   11   12    9    4    5]
```

Edge Histogram for image 1521:

```
[2377 3263 2315 1696 1151 968 770 610 487 423 349 320 280 233
 207  155  129  107  84   86   61   69   44   53   34   28   24   20
 13    9    7    7    2    0    1    2]
```

Edge Histogram for image 1522:

```
[1875 2674 2293 1805 1509 1187 983 753 595 475 357 316 267 229
 196  144  148  108  112  58   67   45   38   26   21   25   20   15
 13    12   7    4    4    1    0    2]
```

Edge Histogram for image 1523:

DM_PA2_FINAL

[4974	4145	2241	1522	955	571	400	298	233	170	119	89	83	89
69	46	46	43	26	30	24	25	25	20	18	18	12	12
15	24	16	11	9	4	1	1						

Edge Histogram for image 1524:

[841	1692	1939	1948	1692	1581	1275	956	840	672	552	456	371	306
248	203	165	129	110	82	65	62	53	39	21	15	19	10
8	9	8	3	6	2	2	4						

Edge Histogram for image 1525:

[1085	1780	2051	1914	1643	1383	1125	855	784	698	614	473	377	337
272	196	180	152	116	86	78	36	49	31	22	9	6	7
4	8	1	2	3	2	2	3						

Edge Histogram for image 1526:

[2258	3626	2780	1927	1206	835	622	514	412	323	293	240	186	178
157	122	96	105	79	68	52	58	43	40	44	26	24	19
21	9	6	8	3	0	3	1						

Edge Histogram for image 1527:

[5583	2336	1751	1442	1220	857	683	555	405	330	261	163	127	131
109	69	75	42	46	18	28	21	15	14	15	15	18	7
11	7	14	2	4	3	5	2						

Edge Histogram for image 1528:

[9013	2285	1720	860	549	389	279	214	172	132	109	79	68	58
54	31	44	32	28	28	29	32	24	23	22	19	22	18
7	9	7	6	12	5	2	3						

Edge Histogram for image 1529:

[2134	2964	2337	1905	1479	1181	860	681	535	379	308	245	219	192
156	109	107	82	80	72	49	46	52	45	30	30	29	22
15	6	12	7	6	7	2	1						

Edge Histogram for image 1530:

[2605	3503	2445	1889	1484	1018	788	549	421	323	216	201	160	128
121	108	75	71	48	34	32	29	26	23	18	16	12	7
6	6	8	4	3	3	3	1						

Edge Histogram for image 1531:

[4012	3578	2411	1773	1325	899	671	402	311	226	163	117	98	67
65	49	47	38	28	23	17	5	10	5	4	6	4	1
3	9	5	3	4	1	2	2						

Edge Histogram for image 1532:

[2217	2247	1971	1724	1454	1191	1024	842	622	589	496	352	322	266
246	196	136	117	102	66	51	36	31	18	15	13	14	9
4	7	3	1	1	0	0	1						

Edge Histogram for image 1533:

[4958	3327	2317	1488	1031	706	486	314	258	229	180	136	130	109
95	95	76	70	52	49	52	42	27	21	15	14	20	15
11	10	11	15	11	3	6	5						

Edge Histogram for image 1534:

[3285	3570	2268	1590	1154	898	736	539	511	344	267	211	177	129
91	111	81	69	47	48	40	38	30	31	23	21	18	17

14	10	8	2	0	2	3	1]
----	----	---	---	---	---	---	----

Edge Histogram for image 1535:

4778	3869	1954	1298	865	679	487	351	361	303	234	212	186	139
111	94	88	54	52	27	31	31	41	30	26	15	12	14
9	8	8	3	5	7	1	1]						

Edge Histogram for image 1536:

4282	4229	2365	1392	993	754	528	412	348	279	194	145	117	80
63	44	44	38	14	21	13	11	6	2	2	1	1	0
1	0	0	2	1	0	0	2]						

Edge Histogram for image 1537:

6322	3765	1651	965	712	491	394	310	253	211	177	165	159	151
129	96	84	70	57	48	39	19	18	13	17	15	10	9
12	4	3	6	3	2	1	3]						

Edge Histogram for image 1538:

6025	4040	1863	957	548	424	337	308	259	217	166	151	161	134
114	106	84	73	75	46	46	39	34	28	28	23	19	13
14	10	9	6	9	7	7	4]						

Edge Histogram for image 1539:

2380	3386	2379	1741	1309	1005	761	631	477	386	298	205	191	187
138	137	121	116	91	85	75	62	48	43	31	19	24	17
15	11	6	3	0	3	2	1]						

Edge Histogram for image 1540:

1606	2936	2867	2329	1565	1179	817	626	490	374	315	229	178	180
153	122	83	73	56	47	33	24	26	13	12	11	9	6
6	6	5	3	3	0	1	1]						

Edge Histogram for image 1541:

2765	3415	2615	2002	1372	1041	796	562	431	339	251	176	124	100
88	84	47	43	38	20	21	11	6	9	7	7	3	1
5	1	1	0	0	1	1	1]						

Edge Histogram for image 1542:

3375	4292	2689	1690	1096	701	523	379	276	225	153	146	130	101
98	76	56	57	42	41	48	30	36	30	25	15	11	11
8	6	4	6	4	0	2	2]						

```
In [ ]: # Converted the Resized images to edge histograms and stored in edge_histograms variable.  
# Checked hist vectors for random images.  
# checked the length of edge_histograms.  
# Also standardized the edge histograms and stored them in standardized_edge_histogram variable.  
import os  
import numpy as np  
from skimage import io, color, filters, exposure  
  
# Function to compute the edge histogram of an image  
def compute_edge_histogram(image):  
    grayscale_image = color.rgb2gray(image)  
    edge_image = filters.sobel(grayscale_image)  
    hist, _ = exposure.histogram(edge_image, nbins=36)  
    return hist  
  
# Function to Load images from given class paths and compute histograms  
def load_images_and_compute_histograms(class_paths):  
    images = []  
    edge_histograms = [] # Corrected variable name  
    labels = []  
  
for class_path in class_paths:  
    class_label = os.path.basename(class_path)  
  
    for filename in os.listdir(class_path):  
        if filename.endswith('.png', '.jpg', '.jpeg'):  
            image_path = os.path.join(class_path, filename)  
            image = io.imread(image_path)  
  
            # Compute the edge histogram for the current image  
            hist = compute_edge_histogram(image)  
  
            images.append(image)  
            edge_histograms.append(hist) # Corrected variable name  
            labels.append(class_label)  
  
    # Convert lists to numpy arrays for ease of use  
    return np.array(images), np.array(edge_histograms), np.array(labels)  
  
# List of paths for four different classes  
class_paths = [  
    r"/content/drive/MyDrive/ResizedImages/n02089078-black-and-tan_coonhound",  
    r"/content/drive/MyDrive/ResizedImages/n02091831-Saluki",  
    r"/content/drive/MyDrive/ResizedImages/n02092002-Scottish_deerhound",  
    r"/content/drive/MyDrive/ResizedImages/n02095314-wire-haired_fox_terrier"  
]  
  
# Load images and compute histograms  
images, edge_histograms, labels = load_images_and_compute_histograms(class_paths)  
  
# Display information for the first image  
print("Number of images:", len(images))  
print("Number of edge histograms:", len(edge_histograms))
```

```
print("Number of labels:", len(labels))

# Display information for the first image
print("First image shape:", images[0].shape)
print("First edge histogram:", edge_histograms[0])
print("Label for the first image:", labels[0])
print(len(edge_histograms))

# Print all edge histograms
for i, histogram in enumerate(edge_histograms):
    print(f"Edge Histogram for image {i + 1}: {histogram}\n")

#####
import numpy as np

# Assuming 'edge_histograms' is your array of edge histograms
# Each histogram can be represented as a 1D NumPy array

def standardize_histograms(histograms):
    standardized_histograms = []

    for histogram in histograms:
        mean = np.mean(histogram)
        std = np.std(histogram)

        # Standardize the histogram
        standardized_histogram = (histogram - mean) / std
        standardized_histograms.append(standardized_histogram)

    return standardized_histograms

standardized_edge_histograms = standardize_histograms(edge_histograms) # Corrected variable name

print(standardized_edge_histograms)
print(len(standardized_edge_histograms))
#####
```

Streaming output truncated to the last 5000 lines.

```

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```

```

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```
In [ ]: from sklearn.model_selection import train_test_split

# Assuming you have standardized_edge_histograms, Labels, and other relevant variables

# Get unique class labels
unique_classes = set(labels)

# Initialize empty lists to store training and test sets
x_train, x_test, y_train, y_test = [], [], [], []

# Perform 80/20 split for each class
for class_label in unique_classes:
    class_indices = [i for i, label in enumerate(labels) if label == class_label]
    class_histograms = [standardized_edge_histograms[i] for i in class_indices]
    class_labels = [labels[i] for i in class_indices]

    # Perform the split
    class_x_train, class_x_test, class_y_train, class_y_test = train_test_split(
        class_histograms, class_labels, test_size=0.2, random_state=42
    )

    # Append to the overall training and test sets
    x_train.extend(class_x_train)
    x_test.extend(class_x_test)
    y_train.extend(class_y_train)
    y_test.extend(class_y_test)

# Convert lists to numpy arrays
x_train = np.array(x_train)
x_test = np.array(x_test)
y_train = np.array(y_train)
y_test = np.array(y_test)

# Print the shapes of the resulting sets
print("Training set shape:", x_train.shape)
print("Test set shape:", x_test.shape)
```

Training set shape: (1232, 36)

Test set shape: (310, 36)

```
In [ ]: from sklearn.preprocessing import StandardScaler

# Assuming x_train is your training dataset

# Initialize the StandardScaler
scaler = StandardScaler()

# Fit the scaler on the training data and transform it
x_train_standardized = scaler.fit_transform(x_train)

# The resulting x_train_standardized contains the standardized features
# Assuming x_test is your test dataset

# Transform the test data using the scaler fitted on the training data
x_test_standardized = scaler.transform(x_test)
```

```
In [ ]: # Print the shapes of the resulting sets
print("Training set shape:", x_train.shape)
print("Test set shape:", x_test.shape)
```

```
Training set shape: (1232, 36)
Test set shape: (310, 36)
```

```
In [ ]: from sklearn.preprocessing import StandardScaler

# Assuming you have x_train and x_test defined

# Initialize the StandardScaler
scaler = StandardScaler()

# Fit the scaler on the training data and transform both training and test data
x_train_standardized = scaler.fit_transform(x_train)
x_test_standardized = scaler.transform(x_test)

# Now x_train_standardized and x_test_standardized contain the standardized features
```

```
In [ ]: from sklearn.model_selection import cross_val_score, KFold, StratifiedKFold
from sklearn.neighbors import KNeighborsClassifier
from sklearn.preprocessing import StandardScaler

# Assuming you have x_train_standardized and y_train defined

# Set the values of k
k_values = [1, 3, 5, 7, 10, 20]

# Initialize StandardScaler
scaler = StandardScaler()

# Standardize the training data
x_train_standardized = scaler.fit_transform(x_train)

# Perform standard 5-fold cross-validation
for k in k_values:
    knn = KNeighborsClassifier(n_neighbors=k)
    scores = cross_val_score(knn, x_train_standardized, y_train, cv=KFold(n_splits=5, shuffle=True, random_state=42))
    print(f"Standard Cross-Validation - k={k}: {scores.mean()}")

# Perform stratified 5-fold cross-validation
for k in k_values:
    knn = KNeighborsClassifier(n_neighbors=k)
    scores = cross_val_score(knn, x_train_standardized, y_train, cv=StratifiedKFold(n_splits=5, shuffle=True, random_state=42))
    print(f"Stratified Cross-Validation - k={k}: {scores.mean()}")
```

```
Standard Cross-Validation - k=1: 0.5422204667390804
Standard Cross-Validation - k=3: 0.45456041604950465
Standard Cross-Validation - k=5: 0.4383331687567888
Standard Cross-Validation - k=7: 0.4439913103584477
Standard Cross-Validation - k=10: 0.4504953753990981
Standard Cross-Validation - k=20: 0.4326059050064185
Stratified Cross-Validation - k=1: 0.5551890984496889
Stratified Cross-Validation - k=3: 0.46752246469833125
Stratified Cross-Validation - k=5: 0.4521411408446069
Stratified Cross-Validation - k=7: 0.43914946841776115
Stratified Cross-Validation - k=10: 0.45296731509825217
Stratified Cross-Validation - k=20: 0.4285836542575952
```

```
In [ ]: import numpy as np
import matplotlib.pyplot as plt
from sklearn.model_selection import cross_val_score, KFold, StratifiedKFold
from sklearn.neighbors import KNeighborsClassifier
from sklearn.preprocessing import StandardScaler

# Assuming you have x_train_standardized and y_train defined

# Set the values of k
k_values = [1, 3, 5, 7, 10, 20]

# Initialize StandardScaler
scaler = StandardScaler()

# Standardize the training data
x_train_standardized = scaler.fit_transform(x_train)

# Initialize lists to store mean validation and training errors
mean_val_errors_standard = []
mean_train_errors_standard = []
mean_val_errors_stratified = []
mean_train_errors_stratified = []

# Perform standard 5-fold cross-validation
for k in k_values:
    knn = KNeighborsClassifier(n_neighbors=k)
    val_scores = cross_val_score(knn, x_train_standardized, y_train, cv=KFold(n_splits=5, shuffle=True, random_state=42))
    train_scores = cross_val_score(knn, x_train_standardized, y_train, cv=KFold(n_splits=5, shuffle=True, random_state=42))
    mean_val_errors_standard.append(1 - val_scores.mean())
    mean_train_errors_standard.append(1 - train_scores.mean())

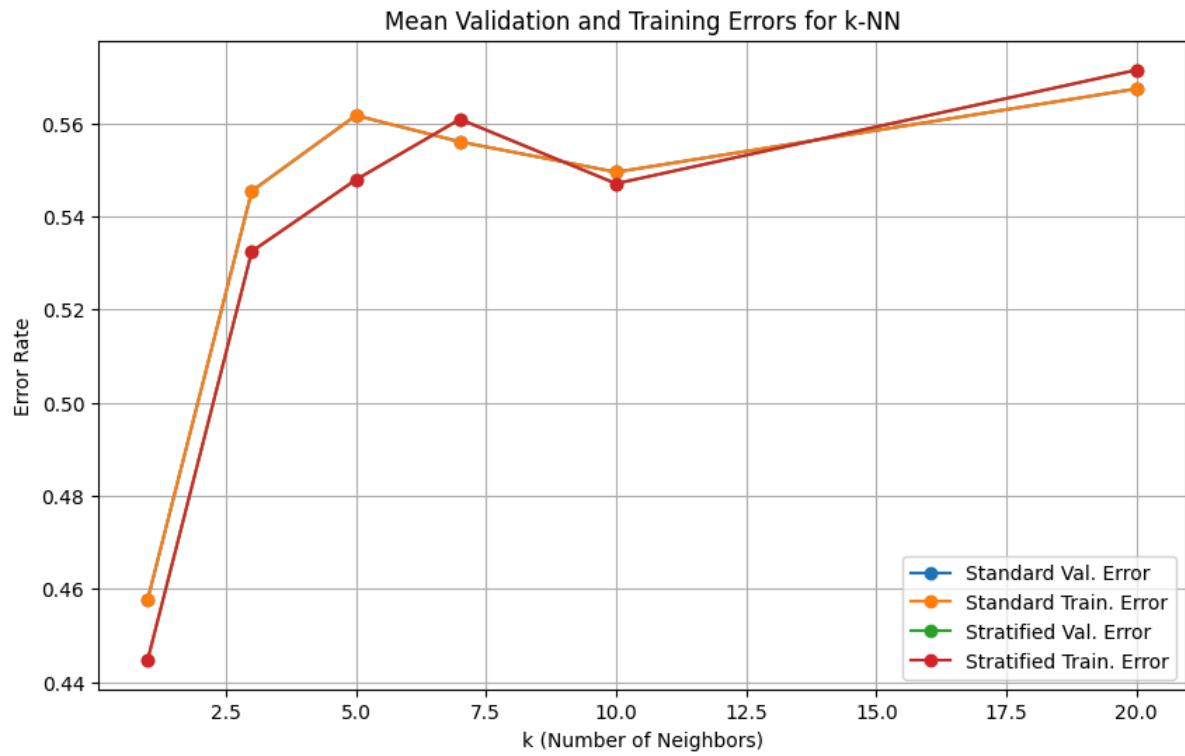
# Perform stratified 5-fold cross-validation
for k in k_values:
    knn = KNeighborsClassifier(n_neighbors=k)
    val_scores = cross_val_score(knn, x_train_standardized, y_train, cv=StratifiedKFold(n_splits=5, shuffle=True, random_state=42))
    train_scores = cross_val_score(knn, x_train_standardized, y_train, cv=StratifiedKFold(n_splits=5, shuffle=True, random_state=42))
    mean_val_errors_stratified.append(1 - val_scores.mean())
    mean_train_errors_stratified.append(1 - train_scores.mean())

# Plotting the graph
plt.figure(figsize=(10, 6))
plt.plot(k_values, mean_val_errors_standard, marker='o', label='Standard Val. Error')
plt.plot(k_values, mean_train_errors_standard, marker='o', label='Standard Train. Error')
plt.plot(k_values, mean_val_errors_stratified, marker='o', label='Stratified Val. Error')
plt.plot(k_values, mean_train_errors_stratified, marker='o', label='Stratified Train. Error')

# Adding Labels and Legend
plt.xlabel('k (Number of Neighbors)')
```

```
plt.ylabel('Error Rate')
plt.title('Mean Validation and Training Errors for k-NN')
plt.legend()

# Display the plot
plt.grid(True)
plt.show()
```



```
In [ ]: import numpy as np
from sklearn.model_selection import cross_val_score, StratifiedKFold, train_test_split
from sklearn.neighbors import KNeighborsClassifier
from sklearn.preprocessing import StandardScaler
from sklearn.metrics import accuracy_score

# Assuming you have x_train_standardized, y_train, x_test_standardized, and y_test defined

# Set the values of k
k_values = [1, 3, 5, 7, 10, 20]

# Initialize StandardScaler
scaler = StandardScaler()

# Standardize the training and test data
x_train_standardized = scaler.fit_transform(x_train)
x_test_standardized = scaler.transform(x_test)

# Initialize lists to store mean validation errors
mean_val_errors = []

# Perform stratified 5-fold cross-validation to find the best k
for k in k_values:
    knn = KNeighborsClassifier(n_neighbors=k)
    val_scores = cross_val_score(knn, x_train_standardized, y_train, cv=StratifiedKFold(n_splits=5, shuffle=True, random_state=42))
    mean_val_errors.append(1 - val_scores.mean())

# Get the index of the k value with the lowest mean validation error
best_k_idx = np.argmin(mean_val_errors)
best_k = k_values[best_k_idx]

# Create the k-Nearest Neighbor classifier with the best k
knn_best = KNeighborsClassifier(n_neighbors=best_k)

# Fit the model on the entire training set
knn_best.fit(x_train_standardized, y_train)

# Make predictions on the test set
y_pred_test = knn_best.predict(x_test_standardized)

# Calculate the accuracy on the test set
test_accuracy = accuracy_score(y_test, y_pred_test)

print(f"Best k: {best_k}")
print(f"Accuracy on test set with best k: {test_accuracy}")
```

Best k: 1

Accuracy on test set with best k: 0.5903225806451613

```
In [ ]: import numpy as np
import matplotlib.pyplot as plt
from sklearn.model_selection import StratifiedKFold
from sklearn.neural_network import MLPClassifier
from sklearn.tree import DecisionTreeClassifier
from sklearn.ensemble import AdaBoostClassifier
from sklearn.metrics import confusion_matrix
```

```
In [ ]: # Initialize the classifiers with chosen parameters
neural_net = MLPClassifier(hidden_layer_sizes=(10, 10, 10), random_state=42)
decision_tree = DecisionTreeClassifier(max_depth=10, random_state=42)
adaboost = AdaBoostClassifier(random_state=42)

classifiers = {
    "Neural Network": neural_net,
    "Decision Tree": decision_tree,
    "AdaBoost": adaboost
}
```

```
In [ ]: from sklearn.model_selection import StratifiedKFold
from sklearn.metrics import confusion_matrix
import matplotlib.pyplot as plt

# Initialize the confusion matrices list
conf_matrices = []

# Stratified 5-Fold Cross-Validation
skf = StratifiedKFold(n_splits=5, shuffle=True, random_state=42)

for name, clf in classifiers.items():
    print(f"Training and evaluating {name} classifier...")

    # Initialize the total confusion matrix
    total_conf_matrix = np.zeros((4, 4))

    for train_index, val_index in skf.split(x_train, y_train):
        X_train, X_val = x_train[train_index], x_train[val_index]
        y_train_fold, y_val_fold = y_train[train_index], y_train[val_index]

        # Fit the classifier on the training fold
        clf.fit(X_train, y_train_fold)

        # Predict on the validation fold
        y_pred = clf.predict(X_val)

        # Compute confusion matrix for this fold
        conf_matrix_fold = confusion_matrix(y_val_fold, y_pred)

        # Add to total confusion matrix
        total_conf_matrix += conf_matrix_fold

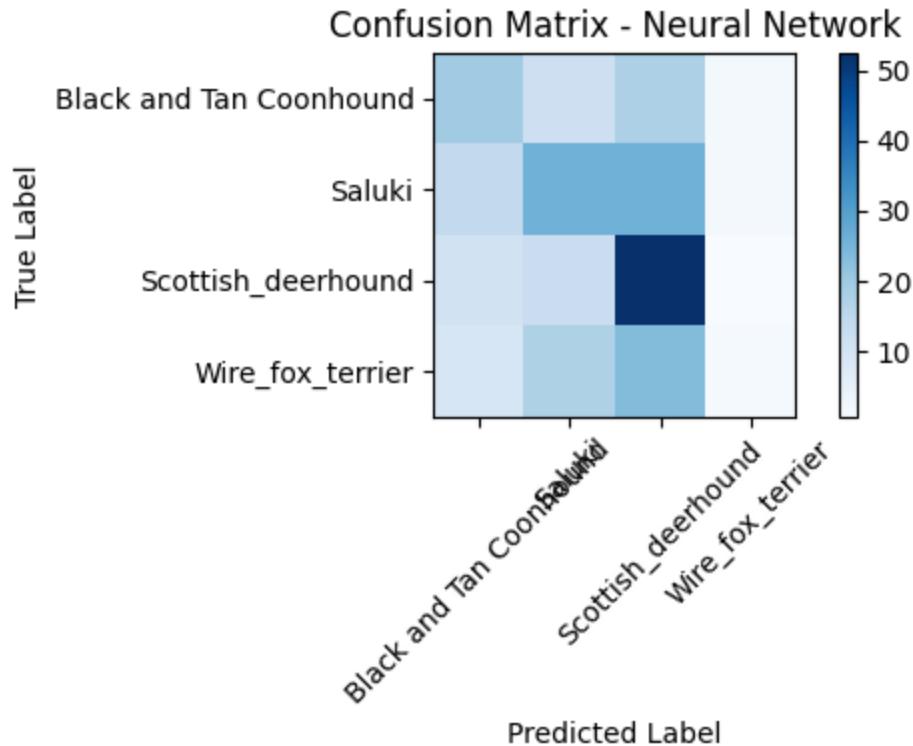
    # Calculate average confusion matrix over folds
    avg_conf_matrix = total_conf_matrix / 5

    # Add to list of confusion matrices
    conf_matrices.append((name, avg_conf_matrix))

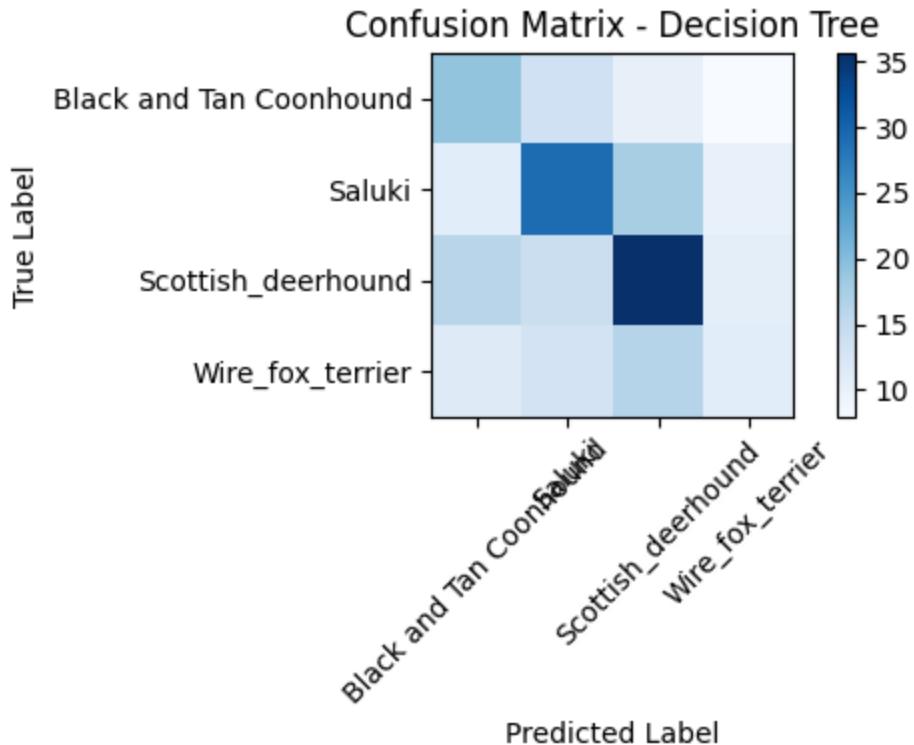
    # Plot the confusion matrix
    plt.figure(figsize=(6, 4))
    plt.imshow(avg_conf_matrix, cmap='Blues', interpolation='nearest')
    plt.title(f"Confusion Matrix - {name}")
    plt.colorbar()
    tick_marks = np.arange(4)
    plt.xticks(tick_marks, ["Black and Tan Coonhound", "Saluki", "Scottish_deerhound", "Wire_fox_terrier"], rotation=45)
    plt.yticks(tick_marks, ["Black and Tan Coonhound", "Saluki", "Scottish_deerhound", "Wire_fox_terrier"])
    plt.xlabel('Predicted Label')
    plt.ylabel('True Label')
    plt.tight_layout()
    plt.show()
```

Training and evaluating Neural Network classifier...

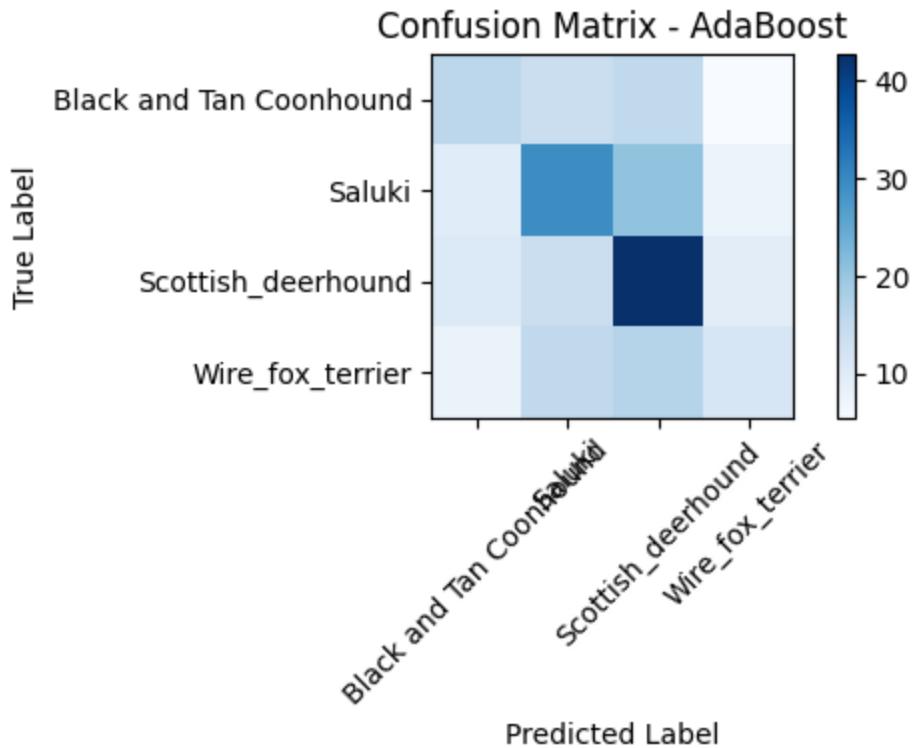
```
/usr/local/lib/python3.10/dist-packages/sklearn/neural_network/_multilayer_perceptron.py:686: ConvergenceWarning: Stochastic Optimizer: Maximum iterations (200) reached and the optimization hasn't converged yet.  
    warnings.warn(  
/usr/local/lib/python3.10/dist-packages/sklearn/neural_network/_multilayer_perceptron.py:686: ConvergenceWarning: Stochastic Optimizer: Maximum iterations (200) reached and the optimization hasn't converged yet.  
    warnings.warn(  
/usr/local/lib/python3.10/dist-packages/sklearn/neural_network/_multilayer_perceptron.py:686: ConvergenceWarning: Stochastic Optimizer: Maximum iterations (200) reached and the optimization hasn't converged yet.  
    warnings.warn(  
/usr/local/lib/python3.10/dist-packages/sklearn/neural_network/_multilayer_perceptron.py:686: ConvergenceWarning: Stochastic Optimizer: Maximum iterations (200) reached and the optimization hasn't converged yet.  
    warnings.warn(  
/usr/local/lib/python3.10/dist-packages/sklearn/neural_network/_multilayer_perceptron.py:686: ConvergenceWarning: Stochastic Optimizer: Maximum iterations (200) reached and the optimization hasn't converged yet.  
    warnings.warn(  
/usr/local/lib/python3.10/dist-packages/sklearn/neural_network/_multilayer_perceptron.py:686: ConvergenceWarning: Stochastic Optimizer: Maximum iterations (200) reached and the optimization hasn't converged yet.  
    warnings.warn(  
/usr/local/lib/python3.10/dist-packages/sklearn/neural_network/_multilayer_perceptron.py:686: ConvergenceWarning: Stochastic Optimizer: Maximum iterations (200) reached and the optimization hasn't converged yet.
```



Training and evaluating Decision Tree classifier...



Training and evaluating AdaBoost classifier...



```
In [71]: from sklearn.model_selection import StratifiedKFold
from sklearn.metrics import confusion_matrix
import matplotlib.pyplot as plt
import seaborn as sns

# Initialize the confusion matrices list
conf_matrices = []

# Initialize empty lists to store predictions for each classifier
neural_network_predictions = []
decision_tree_predictions = []
adaboost_predictions = []

# Stratified 5-Fold Cross-Validation
skf = StratifiedKFold(n_splits=5, shuffle=True, random_state=42)

for classifier, name in zip(classifiers, classifier_names):
    print(f"Training and evaluating {name} classifier...")

    # Initialize the total confusion matrix
    total_conf_matrix = np.zeros((4, 4))

    for train_index, val_index in skf.split(x_train, y_train):
        X_train, X_val = x_train[train_index], x_train[val_index]
        y_train_fold, y_val_fold = y_train[train_index], y_train[val_index]

        # Fit the classifier on the training fold
        classifier.fit(X_train, y_train_fold)

        # Predict on the validation fold
        y_pred = classifier.predict(X_val)

        # Compute confusion matrix for this fold
        conf_matrix_fold = confusion_matrix(y_val_fold, y_pred)

        # Add to total confusion matrix
        total_conf_matrix += conf_matrix_fold

    # Calculate average confusion matrix over folds
    avg_conf_matrix = total_conf_matrix / 5

    # Add to list of confusion matrices
    conf_matrices.append((name, avg_conf_matrix))

    # Plot the confusion matrix using seaborn
    plt.figure(figsize=(6, 4))
    sns.heatmap(avg_conf_matrix, annot=True, fmt="g", cmap='Blues', linewidths=0.5,
                xticklabels=["Black and Tan Coonhound", "Saluki", "Scottish_de
erhound", "Wire_fox_terrier"],
                yticklabels=["Black and Tan Coonhound", "Saluki", "Scottish_de
erhound", "Wire_fox_terrier"])
    plt.title(f"Confusion Matrix - {name}")
    plt.xlabel('Predicted Label')
    plt.ylabel('True Label')
    plt.tight_layout()
```

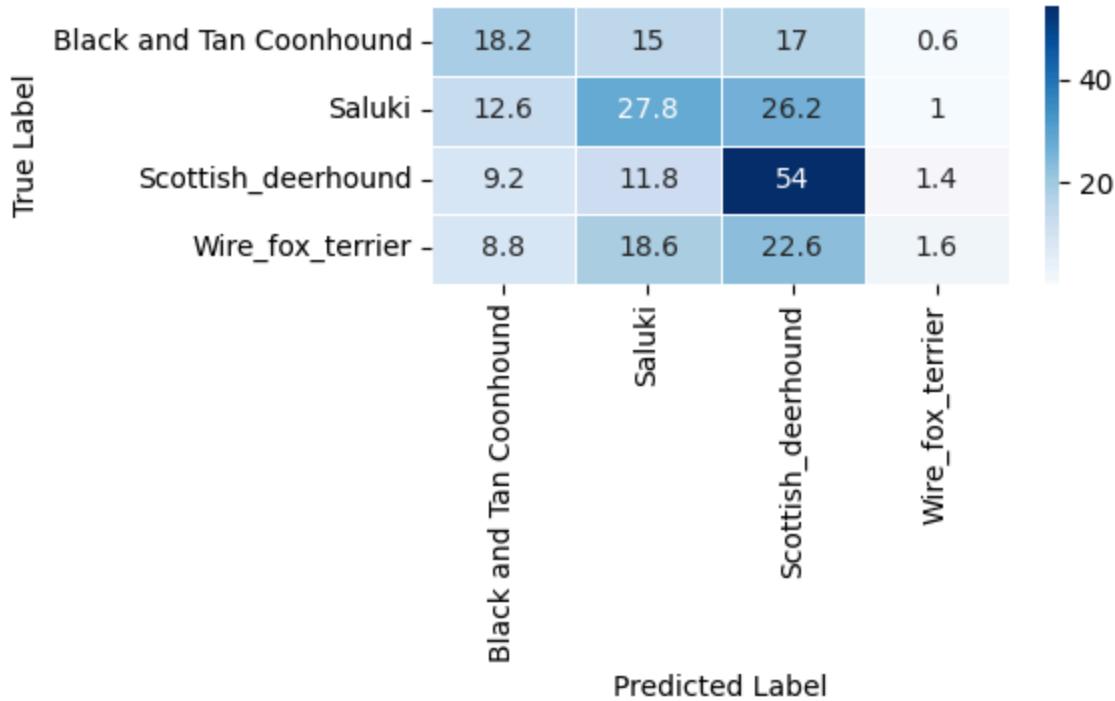
```
plt.show()

# Check the Length of predictions to ensure it matches the test set size
print("Length of Neural Network Predictions:", len(neural_network_predictions))
print("Length of Decision Tree Predictions:", len(decision_tree_predictions))
print("Length of AdaBoost Predictions:", len(adaboost_predictions))
```

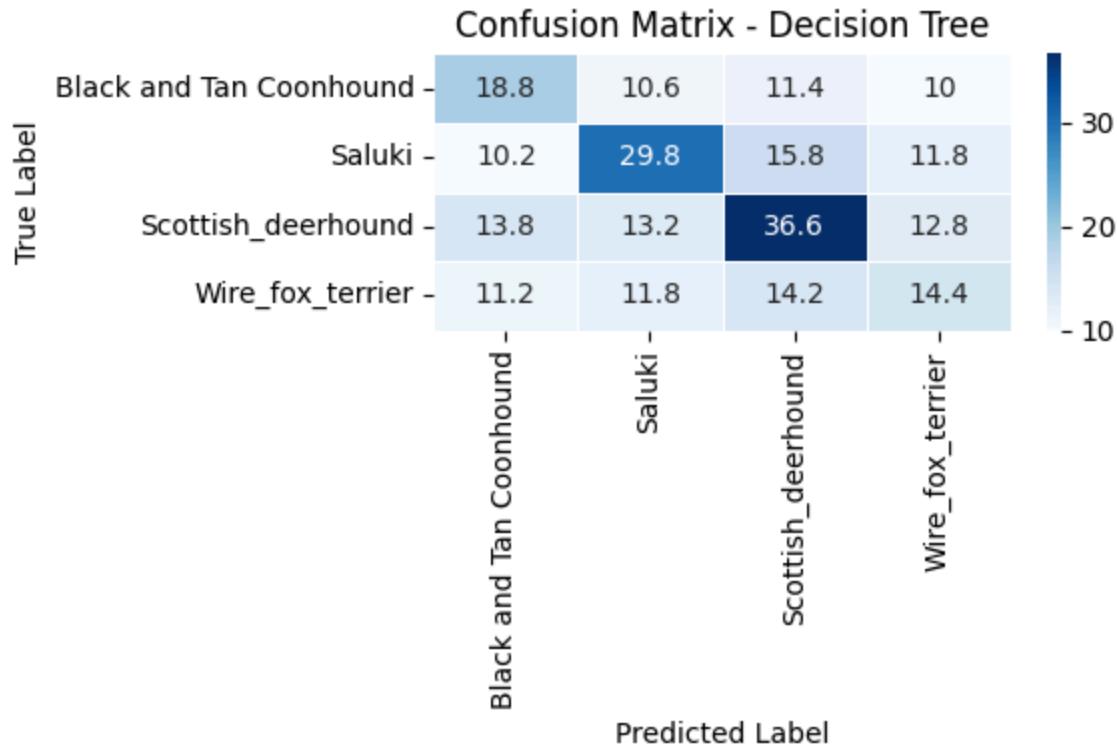
Training and evaluating Neural Network classifier...

```
/usr/local/lib/python3.10/dist-packages/sklearn/neural_network/_multilayer_perceptron.py:686: ConvergenceWarning: Stochastic Optimizer: Maximum iterations (200) reached and the optimization hasn't converged yet.
    warnings.warn(
/usr/local/lib/python3.10/dist-packages/sklearn/neural_network/_multilayer_perceptron.py:686: ConvergenceWarning: Stochastic Optimizer: Maximum iterations (200) reached and the optimization hasn't converged yet.
    warnings.warn(
/usr/local/lib/python3.10/dist-packages/sklearn/neural_network/_multilayer_perceptron.py:686: ConvergenceWarning: Stochastic Optimizer: Maximum iterations (200) reached and the optimization hasn't converged yet.
    warnings.warn(
/usr/local/lib/python3.10/dist-packages/sklearn/neural_network/_multilayer_perceptron.py:686: ConvergenceWarning: Stochastic Optimizer: Maximum iterations (200) reached and the optimization hasn't converged yet.
    warnings.warn(
/usr/local/lib/python3.10/dist-packages/sklearn/neural_network/_multilayer_perceptron.py:686: ConvergenceWarning: Stochastic Optimizer: Maximum iterations (200) reached and the optimization hasn't converged yet.
    warnings.warn(
/usr/local/lib/python3.10/dist-packages/sklearn/neural_network/_multilayer_perceptron.py:686: ConvergenceWarning: Stochastic Optimizer: Maximum iterations (200) reached and the optimization hasn't converged yet.
    warnings.warn(
    warnings.warn(
```

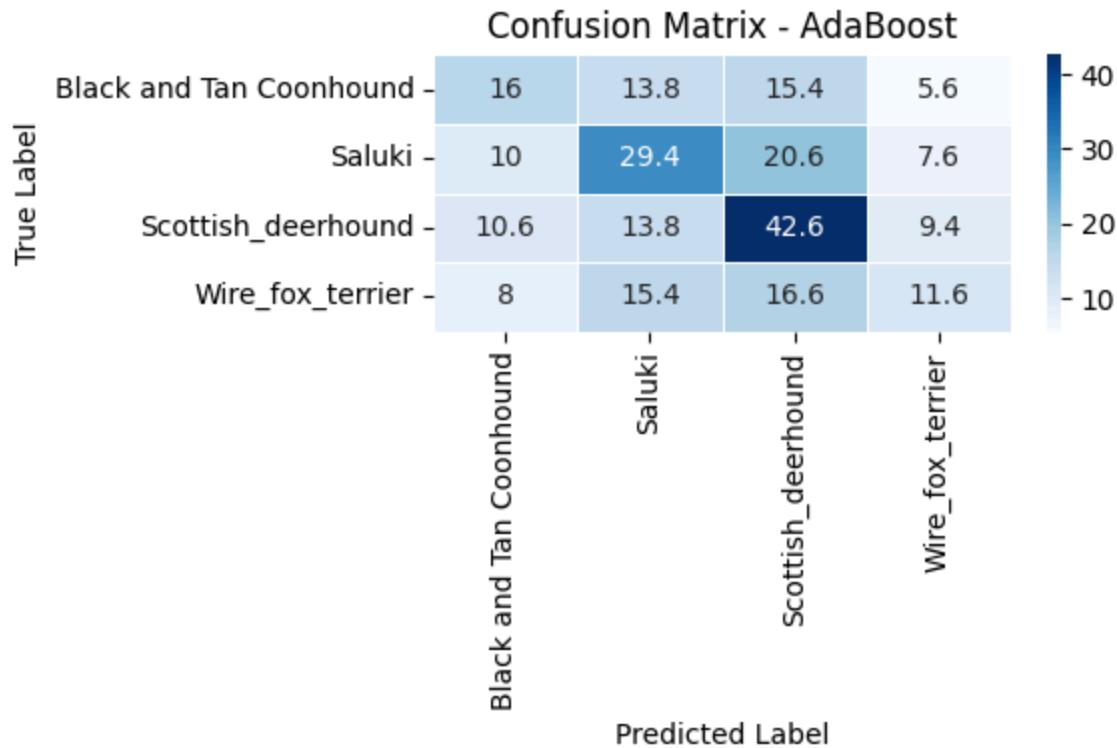
Confusion Matrix - Neural Network



Training and evaluating Decision Tree classifier...



Training and evaluating AdaBoost classifier...



Length of Neural Network Predictions: 0

Length of Decision Tree Predictions: 0

Length of AdaBoost Predictions: 0

```
In [73]: from sklearn.model_selection import StratifiedKFold
from sklearn.metrics import confusion_matrix
import matplotlib.pyplot as plt
import seaborn as sns

# Initialize the confusion matrices list
conf_matrices = []

# Initialize empty lists to store predictions for each classifier
neural_network_predictions = []
decision_tree_predictions = []
adaboost_predictions = []

# Stratified 5-Fold Cross-Validation
skf = StratifiedKFold(n_splits=5, shuffle=True, random_state=42)

classifiers = {
    "Neural Network": mlp_classifier,
    "Decision Tree": decision_tree_classifier,
    "AdaBoost": adaboost_classifier
}

for name, clf in classifiers.items():
    print(f"Training and evaluating {name} classifier...")

    # Initialize the total confusion matrix
    total_conf_matrix = np.zeros((4, 4))

    for train_index, val_index in skf.split(x_train, y_train):
        X_train, X_val = x_train[train_index], x_train[val_index]
        y_train_fold, y_val_fold = y_train[train_index], y_train[val_index]

        # Fit the classifier on the training fold
        clf.fit(X_train, y_train_fold)

        # Predict on the validation fold
        y_pred = clf.predict(X_val)

        # Store predictions for each fold
        if name == "Neural Network":
            neural_network_predictions.extend(y_pred)
        elif name == "Decision Tree":
            decision_tree_predictions.extend(y_pred)
        elif name == "AdaBoost":
            adaboost_predictions.extend(y_pred)

        # Compute confusion matrix for this fold
        conf_matrix_fold = confusion_matrix(y_val_fold, y_pred)

        # Add to total confusion matrix
        total_conf_matrix += conf_matrix_fold

    # Calculate average confusion matrix over folds
    avg_conf_matrix = total_conf_matrix / 5

    # Add to list of confusion matrices
```

```
conf_matrices.append((name, avg_conf_matrix))

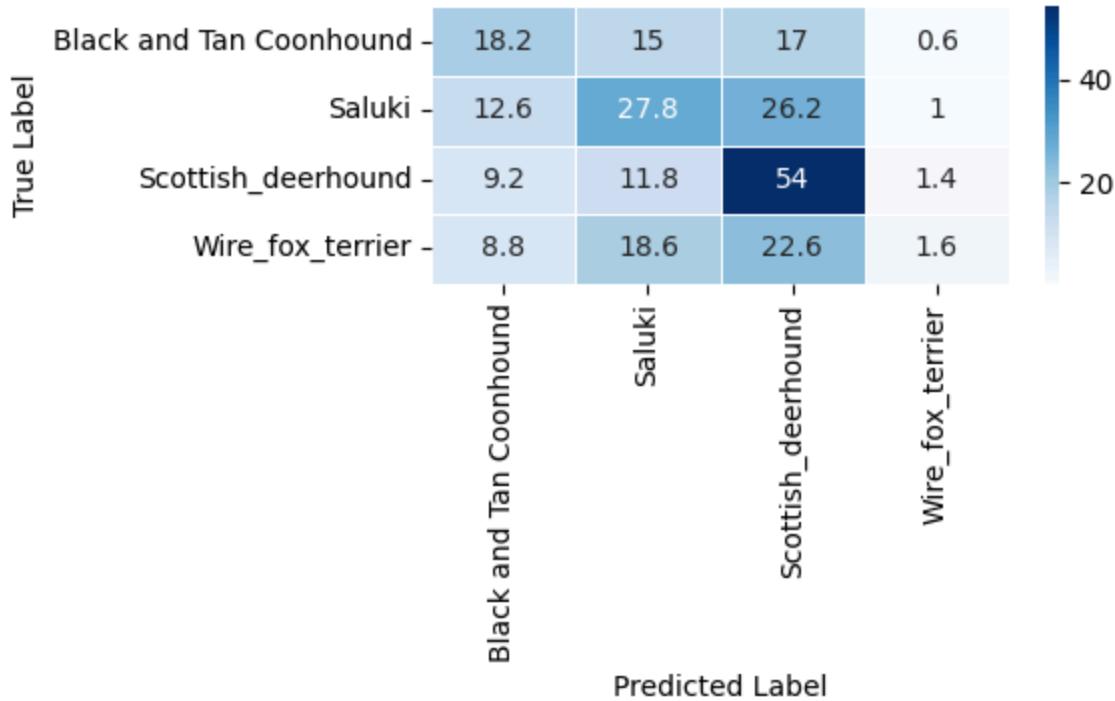
# Plot the confusion matrix using seaborn
plt.figure(figsize=(6, 4))
sns.heatmap(avg_conf_matrix, annot=True, fmt="g", cmap='Blues', linewidths=0.5,
            xticklabels=["Black and Tan Coonhound", "Saluki", "Scottish_de
erhound", "Wire_fox_terrier"],
            yticklabels=["Black and Tan Coonhound", "Saluki", "Scottish_de
erhound", "Wire_fox_terrier"])
plt.title(f"Confusion Matrix - {name}")
plt.xlabel('Predicted Label')
plt.ylabel('True Label')
plt.tight_layout()
plt.show()

print("Confusion matrices computed.")
```

Training and evaluating Neural Network classifier...

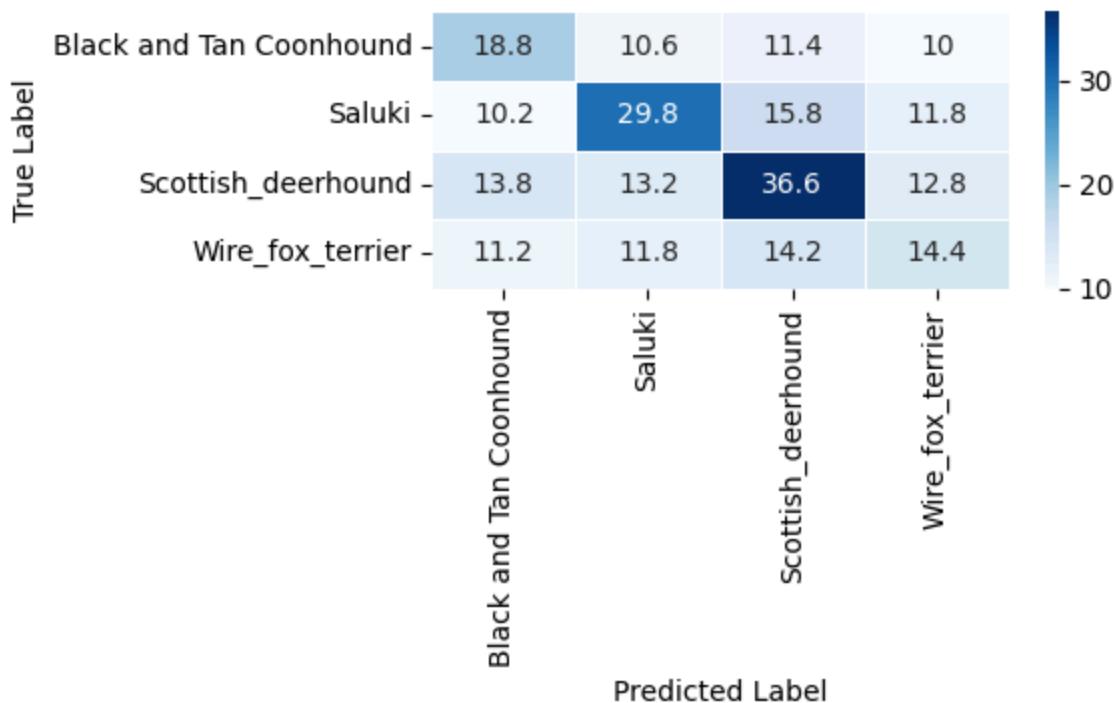
```
/usr/local/lib/python3.10/dist-packages/sklearn/neural_network/_multilayer_perceptron.py:686: ConvergenceWarning: Stochastic Optimizer: Maximum iterations (200) reached and the optimization hasn't converged yet.
    warnings.warn(
/usr/local/lib/python3.10/dist-packages/sklearn/neural_network/_multilayer_perceptron.py:686: ConvergenceWarning: Stochastic Optimizer: Maximum iterations (200) reached and the optimization hasn't converged yet.
    warnings.warn(
/usr/local/lib/python3.10/dist-packages/sklearn/neural_network/_multilayer_perceptron.py:686: ConvergenceWarning: Stochastic Optimizer: Maximum iterations (200) reached and the optimization hasn't converged yet.
    warnings.warn(
/usr/local/lib/python3.10/dist-packages/sklearn/neural_network/_multilayer_perceptron.py:686: ConvergenceWarning: Stochastic Optimizer: Maximum iterations (200) reached and the optimization hasn't converged yet.
    warnings.warn(
/usr/local/lib/python3.10/dist-packages/sklearn/neural_network/_multilayer_perceptron.py:686: ConvergenceWarning: Stochastic Optimizer: Maximum iterations (200) reached and the optimization hasn't converged yet.
    warnings.warn(
/usr/local/lib/python3.10/dist-packages/sklearn/neural_network/_multilayer_perceptron.py:686: ConvergenceWarning: Stochastic Optimizer: Maximum iterations (200) reached and the optimization hasn't converged yet.
    warnings.warn(
    warnings.warn(
```

Confusion Matrix - Neural Network



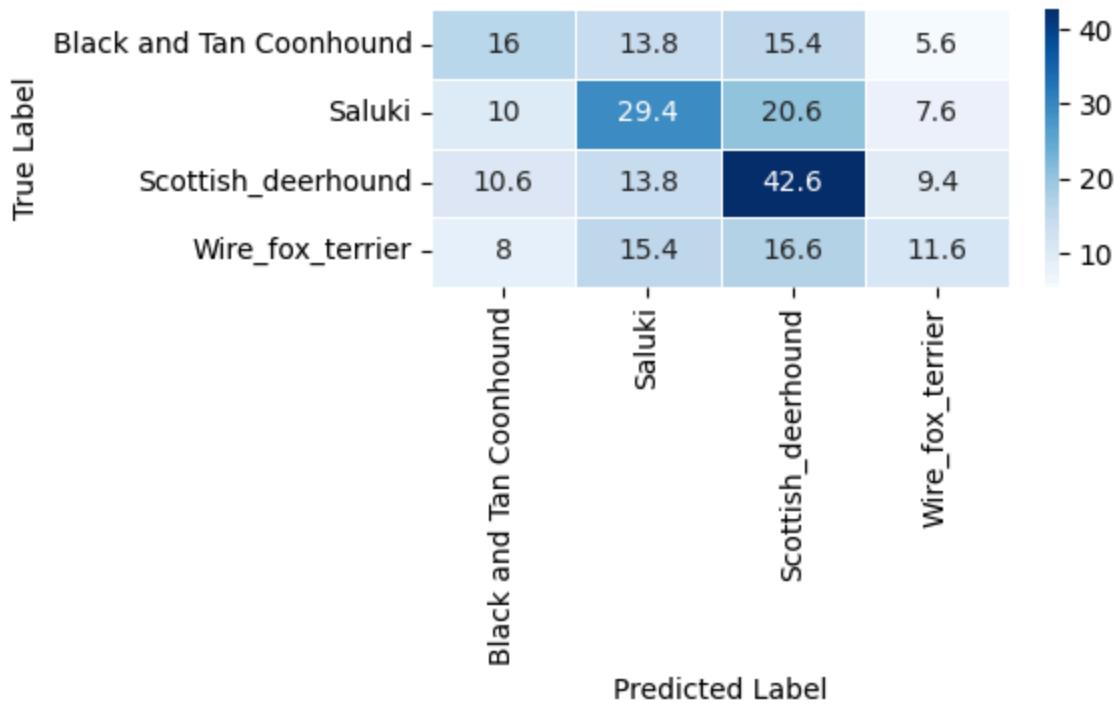
Training and evaluating Decision Tree classifier...

Confusion Matrix - Decision Tree



Training and evaluating AdaBoost classifier...

Confusion Matrix - AdaBoost



Confusion matrices computed.

```
In [ ]: # Assuming you have standardized_edge_histograms, labels, and other relevant variables

# Get unique class labels
unique_classes = set(labels)

# Initialize empty lists to store training and test sets
x_train, x_test, y_train, y_test = [], [], [], []

# Perform 80/20 split for each class
for class_label in unique_classes:
    class_indices = [i for i, label in enumerate(labels) if label == class_label]
    class_histograms = [standardized_edge_histograms[i] for i in class_indices]
    class_labels = [labels[i] for i in class_indices]

# Perform the split
class_x_train, class_x_test, class_y_train, class_y_test = train_test_split(
    class_histograms, class_labels, test_size=0.2, random_state=42
)

# Append to the overall training and test sets
x_train.extend(class_x_train)
x_test.extend(class_x_test)
y_train.extend(class_y_train)
y_test.extend(class_y_test)

# Convert lists to numpy arrays
x_train = np.array(x_train)
x_test = np.array(x_test)
y_train = np.array(y_train)
y_test = np.array(y_test)

# Print the shapes of the resulting sets
print("Training set shape:", x_train.shape)
print("Test set shape:", x_test.shape)
```

Training set shape: (1232, 36)
Test set shape: (310, 36)

```
In [ ]: # Get unique class labels
unique_classes = set(labels)

# Initialize empty lists to store training and test sets
x_train, x_test, y_train, y_test = [], [], [], []

# Perform 80/20 split for each class
for class_label in unique_classes:
    class_indices = [i for i, label in enumerate(labels) if label == class_label]
    class_histograms = [standardized_edge_histograms[i] for i in class_indices]
    class_labels = [labels[i] for i in class_indices]

# Perform the split
class_x_train, class_x_test, class_y_train, class_y_test = train_test_split(
    class_histograms, class_labels, test_size=0.2, random_state=42
)

# Append to the overall training and test sets
x_train.extend(class_x_train)
x_test.extend(class_x_test)
y_train.extend(class_y_train)
y_test.extend(class_y_test)

# Convert lists to numpy arrays
x_train = np.array(x_train)
x_test = np.array(x_test)
y_train = np.array(y_train)
y_test = np.array(y_test)
```

```
In [ ]: # Get unique class labels
unique_classes = set(labels)

# Initialize empty lists to store training and test sets
x_train, x_test, y_train, y_test = [], [], [], []

# Perform 80/20 split for each class
for class_label in unique_classes:
    class_indices = [i for i, label in enumerate(labels) if label == class_label]
    class_histograms = [standardized_edge_histograms[i] for i in class_indices]
    class_labels = [labels[i] for i in class_indices]

# Perform the split
class_x_train, class_x_test, class_y_train, class_y_test = train_test_split(
    class_histograms, class_labels, test_size=0.2, random_state=42
)

# Append to the overall training and test sets
x_train.extend(class_x_train)
x_test.extend(class_x_test)
y_train.extend(class_y_train)
y_test.extend(class_y_test)

# Convert lists to numpy arrays
x_train = np.array(x_train)
x_test = np.array(x_test)
y_train = np.array(y_train)
y_test = np.array(y_test)
```

```
In [ ]: # Assign YOUR_X_TRAIN_DATA and YOUR_Y_TRAIN_DATA
YOUR_X_TRAIN_DATA = x_train
YOUR_Y_TRAIN_DATA = y_train
```

```
In [ ]: # Calculate mean accuracies and mean F1 scores for each classifier
for name, classifier in classifiers.items():
    # Initialize empty lists to store predictions for each fold
    predictions = []

    # Initialize the total confusion matrix
    total_conf_matrix = np.zeros((4, 4))

    for train_index, val_index in skf.split(x_train, y_train):
        X_train, X_val = x_train[train_index], x_train[val_index]
        y_train_fold, y_val_fold = y_train[train_index], y_train[val_index]

        # Fit the classifier on the training fold
        classifier.fit(X_train, y_train_fold)

        # Predict on the validation fold
        y_pred = classifier.predict(X_val)

        # Store predictions for each fold
        predictions.extend(y_pred)

        # Print the number of predictions for each fold (for debugging)
        print(f"Classifier: {name}, Fold: {len(predictions)}, Predictions: {predictions}")

        # Compute confusion matrix for this fold
        conf_matrix_fold = confusion_matrix(y_val_fold, y_pred)

        # Add to total confusion matrix
        total_conf_matrix += conf_matrix_fold

    # Calculate average confusion matrix over folds
    avg_conf_matrix = total_conf_matrix / 5

    # Calculate accuracy
    acc = np.trace(avg_conf_matrix) / np.sum(avg_conf_matrix)
    accuracies[name] = acc

    # Calculate F1 score only if there are predictions
    if len(predictions) > 0:
        # Flatten the true labels to match the predictions
        y_true = np.concatenate([y_val_fold for _, y_val_fold in skf.split(x_train, y_train)])

        # Convert true labels to string format
        y_true = y_true.astype(str)

        # Convert predictions to string format
        predictions = np.array(predictions).astype(str)

        # Check if y_true and predictions have the same length
        if len(y_true) != len(predictions):
            raise ValueError("Length of y_true and predictions do not match.")

        f1 = f1_score(y_true, predictions, average='macro')
        f1_scores[name] = f1
```

```
# Calculate mean accuracies and mean F1 scores over available folds
mean_accuracy_neural_network = np.mean(list(accuracies.values())[0:5])
mean_accuracy_decision_tree = np.mean(list(accuracies.values())[5:10])
mean_accuracy_adaboost = np.mean(list(accuracies.values())[10:15])

mean_f1_neural_network = np.mean(list(f1_scores.values())[0:5])
mean_f1_decision_tree = np.mean(list(f1_scores.values())[5:10])
mean_f1_adaboost = np.mean(list(f1_scores.values())[10:15])

# Print the mean accuracies and mean F1 scores for each classifier
print("Mean Accuracies:")
print("Neural Network:", mean_accuracy_neural_network)
print("Decision Tree:", mean_accuracy_decision_tree)
print("AdaBoost:", mean_accuracy_adaboost)

print("\nMean F1 Scores:")
print("Neural Network:", mean_f1_neural_network)
print("Decision Tree:", mean_f1_decision_tree)
print("AdaBoost:", mean_f1_adaboost)
```

```
/usr/local/lib/python3.10/dist-packages/sklearn/neural_network/_multilayer_perceptron.py:686: ConvergenceWarning: Stochastic Optimizer: Maximum iterations (200) reached and the optimization hasn't converged yet.  
    warnings.warn(
```



```
eerhound', 'n02091831-Saluki', 'n02092002-Scottish_deerhound', 'n02092002-Sco ttish_deerhound', 'n02092002-Scottish_deerhound', 'n02092002-Scottish_deerhou nd', 'n02092002-Scottish_deerhound', 'n02092002-Scottish_deerhound', 'n020918 31-Saluki', 'n02091831-Saluki', 'n02092002-Scottish_deerhound', 'n02092002-Sc ottish_deerhound', 'n02092002-Scottish_deerhound', 'n02092002-Scottish_deerho und', 'n02092002-Scottish_deerhound', 'n02092002-Scottish_deerhound', 'n02095 314-wire-haired_fox_terrier', 'n02092002-Scottish_deerhound', 'n02092002-Scot tish_deerhound', 'n02092002-Scottish_deerhound', 'n02092002-Scottish_deerhou nd', 'n02091831-Saluki', 'n02092002-Scottish_deerhound', 'n02089078-black-and- tan_coonhound', 'n02092002-Scottish_deerhound', 'n02092002-Scottish_deeroun d', 'n02095314-wire-haired_fox_terrier', 'n02092002-Scottish_deerhound', 'n02 089078-black-and-tan_coonhound', 'n02092002-Scottish_deerhound', 'n02092002-S cottish_deerhound', 'n02092002-Scottish_deerhound', 'n02092002-Scottis h_deerhound', 'n02091831-Saluki', 'n02092002-Scottis h_deerhound', 'n02092002-Scottish_deerhound', 'n02092002-Scottish_deerhound', 'n02092002-Scottish_deerhound', 'n02092002-Scottish_deerhound', 'n02092002-Scotti sh_deerhound', 'n02092002-Scottish_deerhound', 'n02092002-Scottish_deerhoun d', 'n02092002-Scottish_deerhound', 'n02092002-Scottish_deerhound', 'n0209200 2-Scottish_deerhound', 'n02091831-Saluki', 'n02092002-Scottish_deerhound', 'n 02092002-Scottish_deerhound', 'n02092002-Scottish_deerhound', 'n02089078-blac k-and-tan_coonhound', 'n02092002-Scottish_deerhound', 'n02095314-wire-haired_ fox_terrier', 'n02092002-Scottish_deerhound', 'n02091831-Saluki', 'n02091831- Saluki', 'n02092002-Scottish_deerhound', 'n02092002-Scottish_deerhound', 'n02 091831-Saluki', 'n02091831-Saluki', 'n02091831-Saluki', 'n02089078-black-and- tan_coonhound', 'n02089078-black-and-tan_coonhound', 'n02091831-Saluki', 'n02 091831-Saluki', 'n02089078-black-and-tan_coonhound', 'n02095314-wire-haired_f ox_terrier', 'n02091831-Saluki', 'n02091831-Saluki', 'n02089078-black-and-tan _coonhound', 'n02091831-Saluki', 'n02091831-Saluki', 'n02092002-Scottish_deer hound', 'n02091831-Saluki', 'n02092002-Scottish_deerhound', 'n02092002-Scotti sh_deerhound', 'n02091831-Saluki', 'n02092002-Scottish_deerhound', 'n02089078 -black-and-tan_coonhound', 'n02089078-black-and-tan_coonhound', 'n02089078-bl ack-and-tan_coonhound', 'n02091831-Saluki', 'n02092002-Scottish_deerhound', 'n02095314-wire-haired_fox_terrier', 'n02091831-Saluki', 'n02095314-wire-hair ed_fox_terrier', 'n02089078-black-and-tan_coonhound', 'n02092002-Scottish_dee rhound', 'n02092002-Scottish_deerhound', 'n02092002-Scottish_deerhound', 'n02 089078-black-and-tan_coonhound', 'n02091831-Saluki', 'n02089078-black-and-tan _coonhound', 'n02092002-Scottish_deerhound', 'n02091831-Saluki']
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```
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```

```
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```


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```
warnings.warn(
```


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    warnings.warn(
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/usr/local/lib/python3.10/dist-packages/sklearn/neural_network/_multilayer_perceptron.py:686: ConvergenceWarning: Stochastic Optimizer: Maximum iterations (200) reached and the optimization hasn't converged yet.
```

```
warnings.warn(
```


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Classifier: AdaBoost, Fold: 247, Predictions: ['n02091831-Saluki', 'n02091831 -Saluki', 'n02092002-Scottish_deerhound', 'n02092002-Scottish_deerhound', 'n0 2092002-Scottish_deerhound', 'n02089078-black-and-tan_coonhound', 'n02092002- Scottish_deerhound', 'n02095314-wire-haired_fox_terrier', 'n02092002-Scottish _deerhound', 'n02089078-black-and-tan_coonhound', 'n02091831-Saluki', 'n02095 314-wire-haired_fox_terrier', 'n02091831-Saluki', 'n02092002-Scottish_deerhou nd', 'n02091831-Saluki', 'n02095314-wire-haired_fox_terrier', 'n02092002-Scot tish_deerhound', 'n02089078-black-and-tan_coonhound', 'n02089078-black-and-ta n_coonhound', 'n02091831-Saluki', 'n02092002-Scottish_deerhound', 'n02089078- black-and-tan_coonhound', 'n02091831-Saluki', 'n02092002-Scottish_deerhound', 'n02091831-Saluki', 'n02092002-Scottish_deerhound', 'n02089078-black-and-tan_ coonhound', 'n02089078-black-and-tan_coonhound', 'n02091831-Saluki', 'n020918 31-Saluki', 'n02092002-Scottish_deerhound', 'n02089078-black-and-tan_coonhoun d', 'n02095314-wire-haired_fox_terrier', 'n02095314-wire-haired_fox_terrier', 'n02089078-black-and-tan_coonhound', 'n02089078-black-and-tan_coonhound', 'n0 2091831-Saluki', 'n02091831-Saluki', 'n02092002-Scottish_deerhound', 'n020920 02-Scottish_deerhound', 'n02091831-Saluki', 'n02089078-black-and-tan_coonhoun d', 'n02089078-black-and-tan_coonhound', 'n02089078-black-and-tan_coonhound', 'n02092002-Scottish_deerhound', 'n02092002-Scottish_deerhound', 'n02091831-Sa luki', 'n02095314-wire-haired_fox_terrier', 'n02092002-Scottish_deerhound', 'n02095314-wire-haired_fox_ terrier', 'n02089078-black-and-tan_coonhound', 'n0 2092002-Scottish_deerhound', 'n02092002-Scottish_deerhound', 'n02092002-Scott ish_deerhound', 'n02092002-Scottish_deerhound', 'n02091831-Saluki', 'n0209183 1-Saluki', 'n02091831-Saluki', 'n02092002-Scottish_deerhound', 'n02092002-Sco ttish_deerhound', 'n02091831-Saluki', 'n02091831-Saluki', 'n02092002-Scottish _deerhound', 'n02091831-Saluki', 'n02091831-Saluki', 'n02091831-Saluki', 'n02 092002-Scottish_deerhound', 'n02091831-Saluki', 'n02091831-Saluki', 'n0209183 1-Saluki', 'n02095314-wire-haired_fox_terrier', 'n02092002-Scottish_deerhoun d', 'n02091831-Saluki', 'n02091831-Saluki', 'n02091831-Saluki', 'n02091831-Sa luki', 'n02092002-Scottish_deerhound', 'n02091831-Saluki', 'n02092002-Scottis h_deerhound', 'n02091831-Saluki', 'n02092002-Scottish_deerhound', 'n02089078- black-and-tan_coonhound', 'n02091831-Saluki', 'n02089078-black-and-tan_coonho und', 'n02091831-Saluki', 'n02089078-black-and-tan_coonhound', 'n02091831-Sal uki', 'n02091831-Saluki', 'n02089078-black-and-tan_coonhound', 'n02091831-Sal uki', 'n02089078-black-and-tan_coonhound', 'n02092002-Scottish_deerhound', 'n 02091831-Saluki', 'n02089078-black-and-tan_coonhound', 'n02092002-Scottish_de erhound', 'n02095314-wire-haired_fox_terrier', 'n02092002-Scottish_deerhou nd', 'n02091831-Saluki', 'n02089078-black-and-tan_coonhound', 'n02091831-Saluk

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Mean Accuracies:

Neural Network: 0.40611471861471865

Decision Tree: nan

AdaBoost: nan

Mean F1 Scores:

Neural Network: 0.0

Decision Tree: nan

AdaBoost: nan

/usr/local/lib/python3.10/dist-packages/numpy/core/fromnumeric.py:3504: RuntimeWarning: Mean of empty slice.

```
return methods.mean(a, axis=axis, dtype=dtype,
```

```
/usr/local/lib/python3.10/dist-packages/numpy/core/_methods.py:129: RuntimeWarning: invalid value encountered in scalar divide
```

```
ret = ret.dtype.type(ret / rcount)
```

```
In [67]: from sklearn.metrics import accuracy_score, f1_score
import numpy as np

accuracy_scores = []
f1_scores = []

# Initialize classifiers
neural_network_classifier = MLPClassifier(hidden_layer_sizes=(10, 10, 10), random_state=1)
decision_tree_classifier = DecisionTreeClassifier(random_state=1)
adaboost_classifier = AdaBoostClassifier(random_state=1)

classifiers = [neural_network_classifier, decision_tree_classifier, adaboost_classifier]
classifier_names = ['Neural Network', 'Decision Tree', 'AdaBoost']

for classifier, classifier_name in zip(classifiers, classifier_names):

    classifier.fit(x_train, y_train)

    Y_pred = classifier.predict(x_test)

    accuracy = accuracy_score(y_test, Y_pred)
    f1 = f1_score(y_test, Y_pred, average='weighted')

    accuracy_scores.append(accuracy)
    f1_scores.append(f1)

# Print accuracy and F1 score for each classifier
for classifier_name, accuracy, f1 in zip(classifier_names, accuracy_scores, f1_scores):
    print(f'{classifier_name} - Accuracy: {accuracy}, F1 Score: {f1}')
```

```
/usr/local/lib/python3.10/dist-packages/sklearn/neural_network/_multilayer_perceptron.py:686: ConvergenceWarning: Stochastic Optimizer: Maximum iterations (200) reached and the optimization hasn't converged yet.
  warnings.warn(
```

```
Neural Network - Accuracy: 0.4129032258064516, F1 Score: 0.36143738579254925
Decision Tree - Accuracy: 0.36129032258064514, F1 Score: 0.3635552141304534
AdaBoost - Accuracy: 0.34838709677419355, F1 Score: 0.33262276777806316
```

```
In [66]: from sklearn.metrics import accuracy_score, f1_score
import numpy as np

accuracy_scores = []
f1_scores = []

# Initialize classifiers
neural_network_classifier = MLPClassifier(hidden_layer_sizes=(10, 10, 10), random_state=1)
decision_tree_classifier = DecisionTreeClassifier(random_state=1)
adaboost_classifier = AdaBoostClassifier(random_state=1)

classifiers = [neural_network_classifier, decision_tree_classifier, adaboost_classifier]
classifier_names = ['Neural Network', 'Decision Tree', 'AdaBoost']

for classifier, classifier_name in zip(classifiers, classifier_names):

    classifier.fit(x_train, y_train)

    Y_pred = classifier.predict(x_test)

    accuracy = accuracy_score(y_test, Y_pred)
    f1 = f1_score(y_test, Y_pred, average='weighted')

    accuracy_scores.append(accuracy)
    f1_scores.append(f1)

best_method_index_accuracy = np.argmax(accuracy_scores)
best_method_index_f1_score = np.argmax(f1_scores)
best_method_name = classifier_names[best_method_index_accuracy]
best_method_name_f1 = classifier_names[best_method_index_f1_score]

print(f'The best method based on accuracy is: {best_method_name}')
print(f'The best method based on F1 score is: {best_method_name_f1}')
```

/usr/local/lib/python3.10/dist-packages/sklearn/neural_network/_multilayer_perceptron.py:686: ConvergenceWarning: Stochastic Optimizer: Maximum iterations (200) reached and the optimization hasn't converged yet.

```
warnings.warn(
```

The best method based on accuracy is: Neural Network

The best method based on F1 score is: Decision Tree